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# Colorado's Woodland Resources on State and Private Land

United States  
Department of  
Agriculture

Forest Service

Intermountain  
Research Station

Resource Bulletin  
INT-50



Roger C. Conner  
Alan W. Green

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## PREFACE

The primary objective of Forest Survey—a continuing, nationwide undertaking of the Forest Service, U.S. Department of Agriculture—is to provide an assessment of the renewable resources for the Nation's forests. Fundamental to the accomplishment of the objective are the periodic State-by-State resource inventories. Originally, Forest Survey was authorized by the McSweeney-McNary Act of 1928. The current authorization is through the Renewable Resources Research Act of 1978.

The Intermountain Research Station with headquarters in Ogden, UT, conducts the forest resource inventories for the Rocky Mountain States of Arizona, Colorado, Idaho, Montana, New Mexico, Nevada, western South Dakota, Utah, Wyoming, western Texas, and Oklahoma's Panhandle. These inventories provide information concerning the extent and condition of State and privately owned forest lands and most other lands not in the National Forest System.

These data, when combined with similar information for National Forest lands, provide a basis for forming forest policies and programs and for the orderly development and use of the resources.

## THE AUTHORS

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## ACKNOWLEDGMENTS

This report is the result of the combined efforts of numerous people on the Forest Survey staff. In addition to the photo interpretation and field crews, several individuals played key roles in the reduction of basic data into information describing the extent, nature, and condition of the forest resources in Colorado: Dennis Collins supervised the data collection; Sharon Woudenberg and Shirley Waters compiled the data and made summaries; and Susan Brown and Velma Inama transformed the data summaries into tables of information. Also, we acknowledge the Colorado State Forest Service for its cooperation and assistance in collecting the inventory data. And we extend a special note of gratitude to the private land owners who allowed the field crews access to the sample locations on their properties.

## RESEARCH SUMMARY

Presents data pertaining to the 2.8 million acres of State and privately owned woodlands in Colorado. Summarizes the basic statistics of the woodlands and presents tables of area, volume, growth, and mortality estimates.

Also includes a brief discussion of the possible wood products available and of the extent of the resource readily accessible by existing roads.

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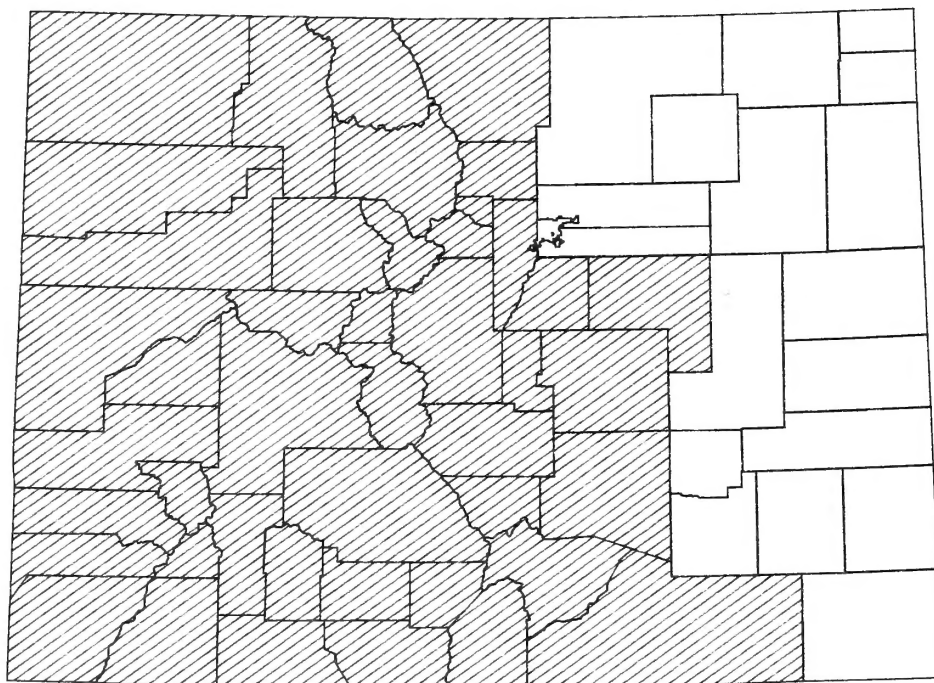


Figure 1—Counties covered by the Colorado inventory.



# Colorado's Woodland Resources on State and Private Land

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## INTRODUCTION

The latest inventory of Colorado's forests, completed in 1983, was confined to those counties covering the western two-thirds of the State (fig. 1). Because there is almost no forest land in eastern Colorado, it was administratively designated as "nonforest" and was not sampled. This marked the first time the State's woodlands—forest land where timber species make up less than 10 percent stocking—have been included in such an inventory, and reflects, at least in part, a changing attitude about the importance of these lands as a source of wood fiber. A "rekindling" of interest might be a more appropriate term, considering that during the late 1800's the woodlands were an important source of raw material for the economic development of the State. Mining, ranching, and the railroads required large quantities of mine props, fuelwood, fenceposts, and railroad ties, and in many cases the woodlands were the primary sources of such material (Buckman and Wolters 1987).

Woodlands occupy about 6 million of Colorado's 21.5 million acres of forest land and are found primarily in the western and south-central regions (fig. 2). The data in this report pertain only to the 2.8 million acres of State and privately owned woodland within those counties included in the inventory. For the Colorado inventory, Indian lands were considered a component of private lands.

The rest of the woodland—some 3.8 million acres—is on public lands. Nearly all of it is on lands managed by the USDI Bureau of Land Management (BLM), but about half a million acres of woodland are found within the National Forests (USDA Forest Service 1987). Although these lands were not included in the 1983 inventory, the nature and condition of the woodland resources on State and private land is likely to be fairly representative of the woodlands on public lands.

All tables mentioned in the text appear at the end of this publication.

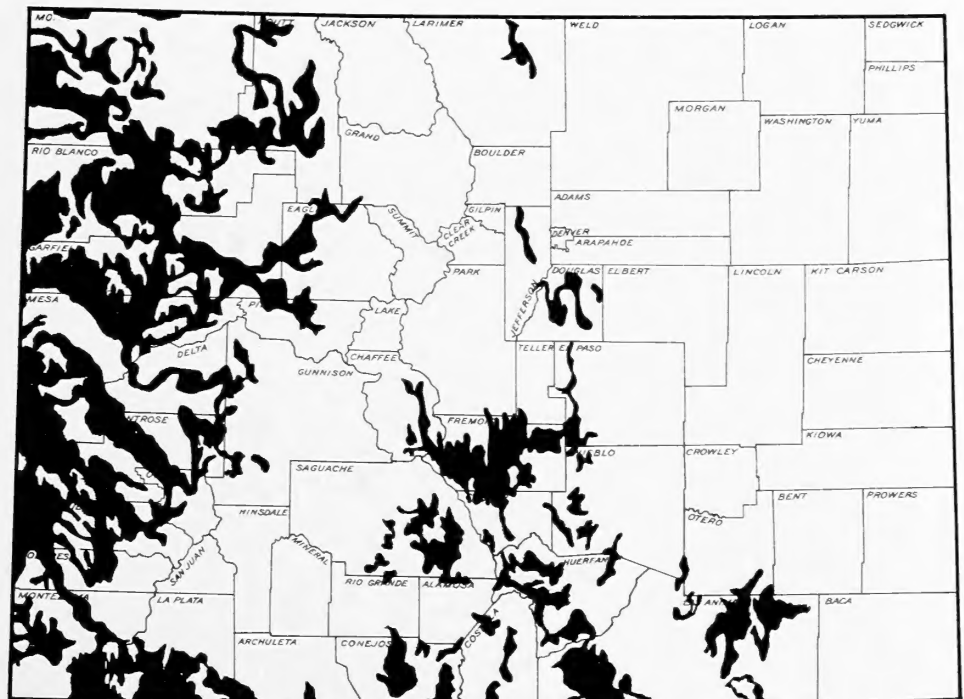


Figure 2—Geographical distribution of woodland in Colorado.

## HIGHLIGHTS

### Area

Those counties included in the inventory cover an area of over 46.2 million acres. About 22.9 million acres are State and privately owned, and of this over 6.4 million acres are forested. Woodlands account for 44 percent or 2.8 million acres of the State and privately owned forest land. Nearly all are privately owned (fig. 3).

Pinyon-juniper (P-J) is the major woodland forest type and occupies about 1.7 million acres, or roughly three-fifths of the woodland area. An additional 438,000 acres are pure juniper stands. The oak type is found on approximately 672,000 acres, about a quarter of the woodland area. Riparian and other western hardwood types account for less than 1 percent (fig. 4).

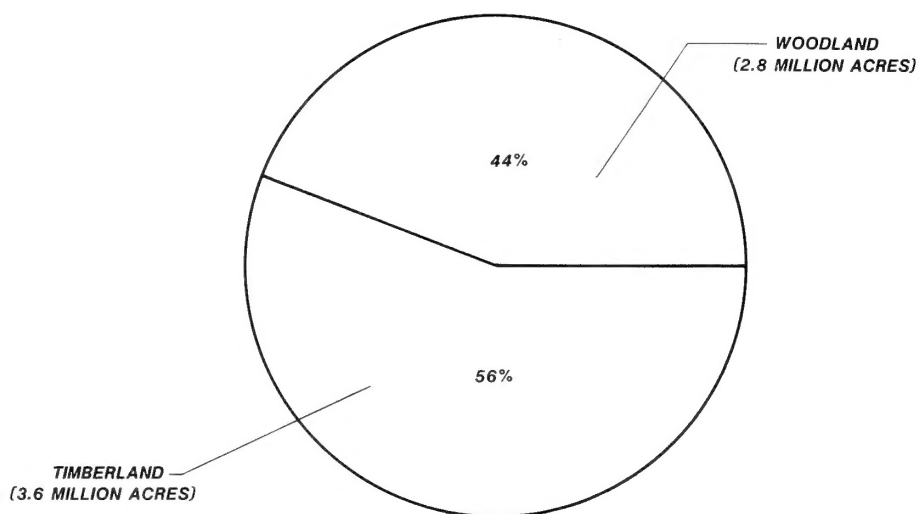


Figure 3—Distribution of State and private forest land by land class.

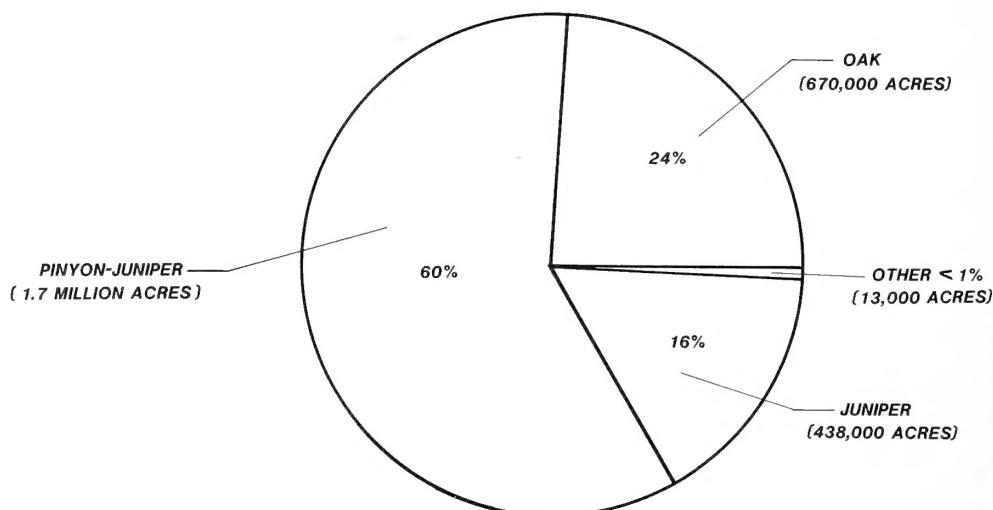


Figure 4—Distribution of State and private woodland area by forest type.

About two-thirds of the area, or 1.9 million acres, support less than 500 cubic feet of volume per acre. Only 352,000 acres, 13 percent, contain more than 1,000 cubic feet per acre. Nearly all of the oak type is in the lowest volume class. Typically, the oak stands in Colorado, specifically Gambel oak (*Quercus gambelii*), are characterized by dense clumps of small trees that have little volume (fig. 5).

## Volume

Net live volume on State and private woodland amounted to nearly 1.1 billion cubic feet in 1982, and deadwood volume totaled 136 million cubic feet. Total volume averaged over 441 cubic feet per acre.

Juniper species (*Juniperus scopulorum*, *J. osteosperma*, *J. monosperma*) account for over half of the total volume. About 11 percent of this, or 75.4 million cubic feet, is deadwood, primarily on live trees. Pinyon (*Pinus edulis*) amounts to 431.3 million cubic feet, over a third of the total volume. Dead volume was just under 48 million cubic feet, about 11 percent of the total for pinyon (fig. 6).

Over half of the total net live volume, roughly 609 million cubic feet, is in trees less than 15 inches diameter at root collar (d.r.c.). Oak species, which account for roughly 70 percent of the 1.4 billion live trees and 47 percent of the trees over 3 inches d.r.c., accounted for just 11 percent of the total live volume, about 117 million cubic feet.

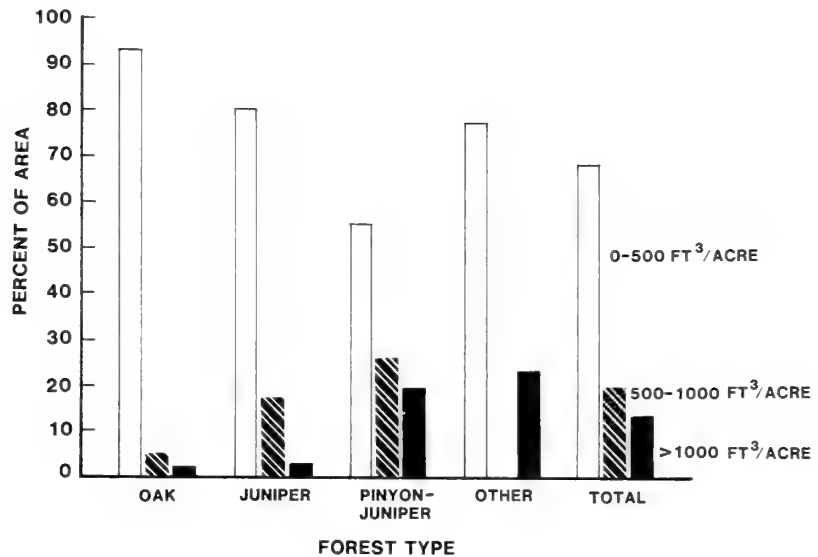


Figure 5—Distribution of State and private woodland area by forest type and volume class.

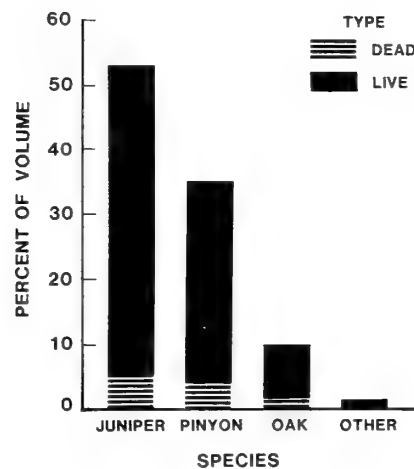


Figure 6—Total volume on State and private woodland by species, 1983.

**Components of  
Change**

Nearly three-fourths of the oak volume is in trees less than 7 inches d.r.c., and 58 percent or 67.9 million cubic feet is in the 4-inch class alone. Volume for pinyon and juniper species is distributed somewhat more evenly throughout the diameter classes (fig. 7).

On the average, the P-J forest type contains roughly 570 cubic feet of volume (live and dead) per acre while the pure juniper types contain about 344 cubic feet per acre. Oak types average just under 184 cubic feet of volume per acre. These average volumes by type are directly related to stand density, relative site quality, and tree diameter.

**Growth**—Total net annual growth on State and private woodlands was 15.2 million cubic feet in 1982 (appendix table 13). This is equivalent to adding about 190,000 cords of wood per year (80 cubic feet per cord) and is roughly 1.4 percent of the live volume. Pinyon, juniper, and oak species each contributed about a third of the growth even though oak accounted for only 11 percent of the live volume (fig. 8).

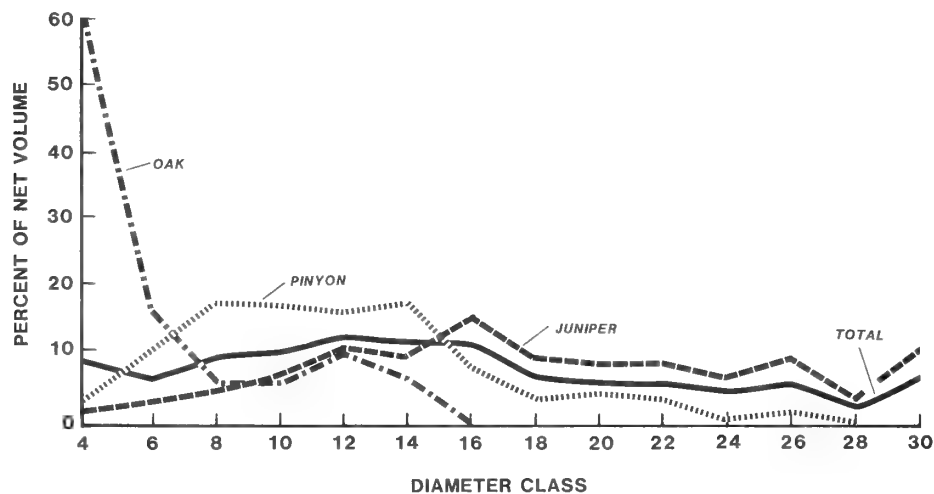


Figure 7—Net volume on State and private woodland by species and diameter class, 1983.

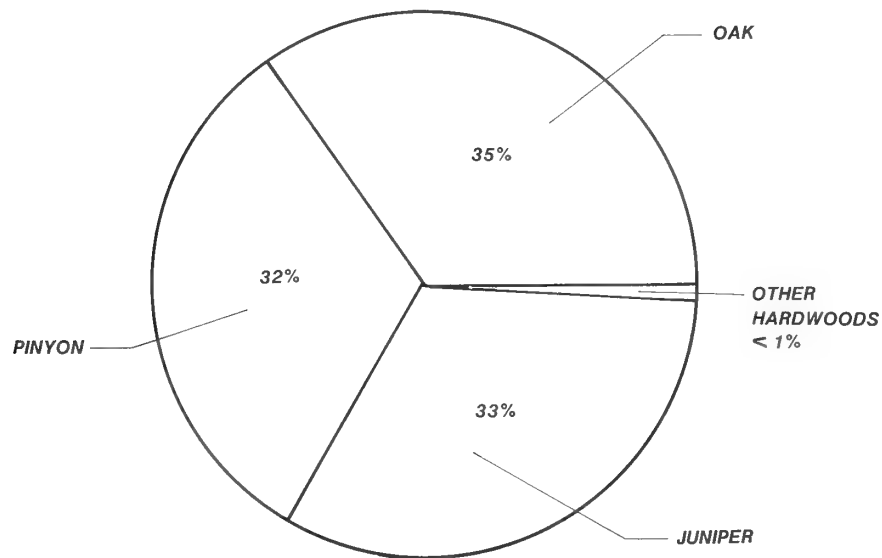


Figure 8—Distribution of net annual growth on State and private woodland by species, 1982.

Nearly three-quarters of the total net annual growth is in trees less than 11 inches d.r.c., and over a third—38 percent—is in the 4-inch d.r.c. class. The high proportion here is due primarily to the condition of Gambel oak, which accounts for about 77 percent of the trees in this diameter class. Over 83 percent of the net annual growth of pinyon is also in trees less than 11 inches d.r.c (fig. 9).

The oak forest type, through the benefit of a greater number of trees, averages a somewhat better growth rate per acre than the other types. Oak produces about 7.6 cubic feet of volume per year, while the P-J and juniper types average approximately 5 cubic feet and 4.1 cubic feet per acre per year, respectively (appendix table 13).

Average net annual growth on private woodlands in 1982 was about 5.5 cubic feet per acre. State owned woodlands averaged roughly 4.9 cubic feet per acre per year.

**Mortality**—Annual mortality of 2.3 million cubic feet offsets about 15 percent of the total growth for woodland (appendix table 8). Average mortality is less than 1 cubic foot per acre per year.

Pinyon and juniper species account for 73 percent or about 1.7 million cubic feet of the annual mortality, which is roughly proportional to their share of the net volume (fig. 10).

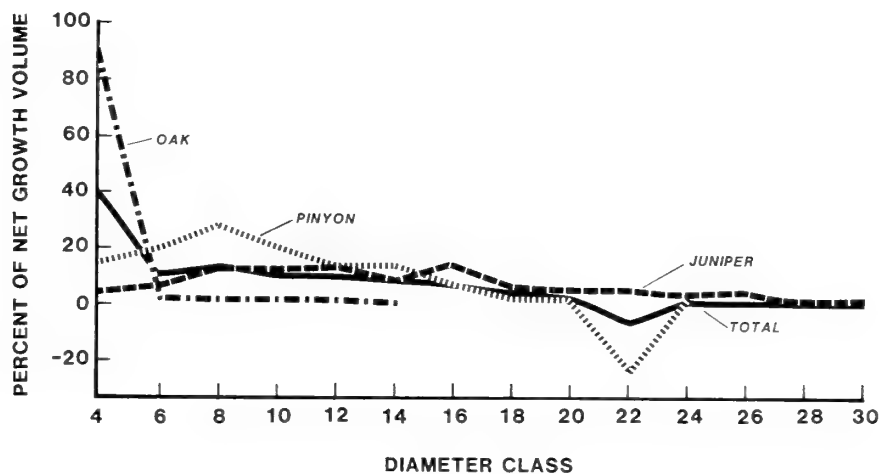


Figure 9—Net annual growth on State and private woodland by species and diameter class, 1982 (total excludes other hardwoods).

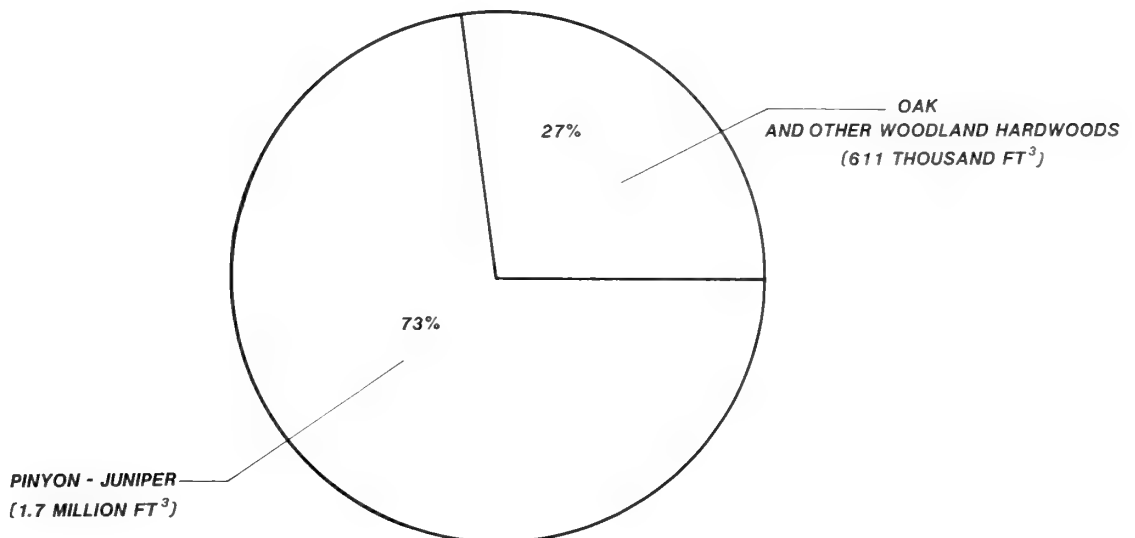


Figure 10—Distribution of annual mortality on State and private woodland by species group, 1982.

## POTENTIAL WOOD PRODUCTS

Potential products from the woodlands include fuelwood, fenceposts, Christmas trees, and others.

### Fuelwood

Historically, fuelwood has been a major wood product harvested from woodlands. Native Americans, explorers, pioneers, settlers, and even some early industries likely depended upon the resources for firewood or industrial fuel.

Today, woodlands remain a popular source of firewood for residential use and for some commercial operators. A recent survey of the fuelwood situation in Colorado reports an estimated 41,000 cords were harvested from woodland tree species in 1982 (McLain and Booth 1985).

As shown in figure 11, nearly 32,000 cords, or 2.6 million cubic feet, were harvested from woodland species on State and privately owned land. Over 70 percent of this harvest was from dead trees.

About 1.7 million cubic feet—68 percent of the total fuelwood harvest—came from pinyon, reportedly all of it from dead trees. Nearly all of the live volume of fuelwood harvested, over 9,000 cords, came from juniper species, and all was cut from private lands. Privately owned land also contributed all of the approximately 88,000 cubic feet of oaks and other hardwoods cut for fuelwood.

Deadwood harvested from woodland species represents about 1 percent of the 136 million cubic feet of salvable dead volume available (appendix table 15).

### Posts

Woodland tree species, primarily juniper and oak, are often cut for fenceposts (fig. 12). An estimated 159 million usable corner and line posts are in trees on Colorado's State and private woodlands. Over a third of these, about 54 million, are the more desirable corner posts.

Approximately 70 percent of the posts are in juniper, and roughly 70.8 million of these are line posts. Oak contributes about 4 percent or 5.8 million, and nearly all of these are line posts.

Although pinyon is not commonly made into fenceposts, some use of it for this purpose was noted throughout the State. The estimated 43.6 million pinyon posts account for over a quarter of the total.

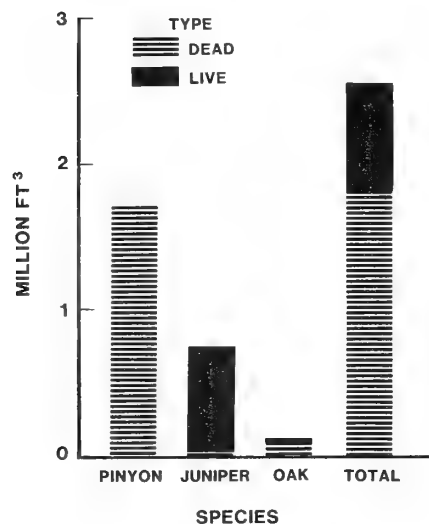


Figure 11—Live and dead fuelwood harvested from woodland species on State and private land, 1982.

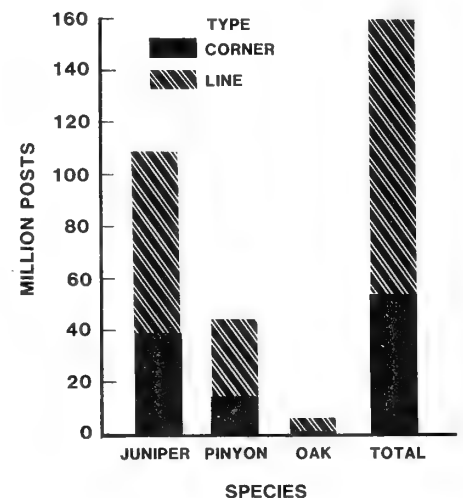


Figure 12—Number of fenceposts on State and private woodland by species and type of post.

## Christmas Trees

Pinyon is the only woodland tree species used as Christmas trees. Of the estimated 239.3 million pinyon trees on State and private land in Colorado, about 70 million, or 29 percent, met at least minimum height and form criteria to qualify as potential Christmas trees (appendix table 21).

Although the majority were considered utility grade, over a third, roughly 23.2 million, met the standard grade criteria. Another 3.2 million were the more desirable premium grade (fig. 13).

Nearly half the trees were in the preferred 6- to 10-foot height class. Just under 86 percent of the premium grade trees were in this class.

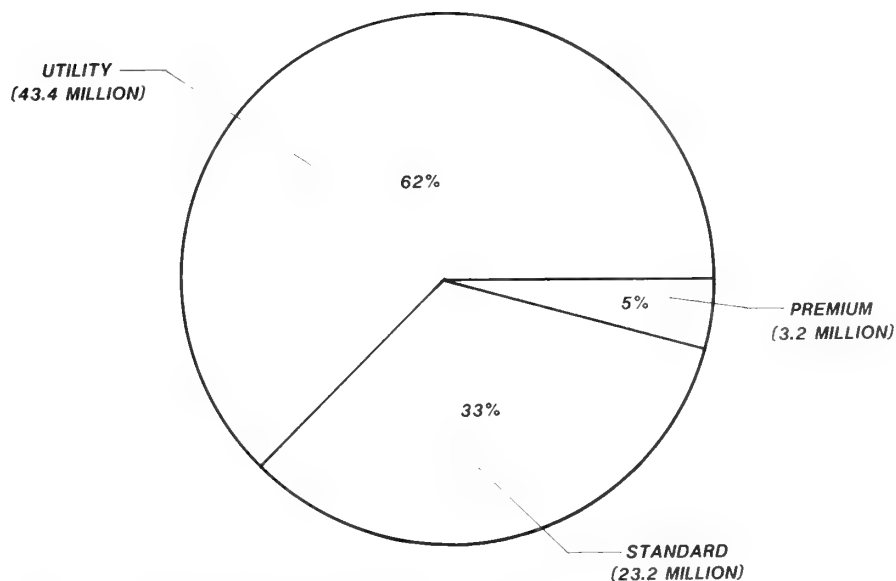


Figure 13—Number of pinyon Christmas trees on State and private woodland by grade.

## Other Potential Products

In addition to these widely accepted products already being harvested from woodlands, recent research has been conducted into the feasibility of producing other wood fiber products. Although additional research is needed, the potential to use pinyon and juniper wood to produce particle board, paper, cement board, and naval-stores products has shown promise (Murphy 1987).

## ACCESSIBILITY

Accessibility has to do with the relative ease or difficulty with which trees can be reached for harvest. Nearness to roads and steepness of slope are usually thought to be reasonable indicators of the degree of difficulty to be encountered in a commercial harvest operation. The rather arbitrary rule of thumb of "less than 30 percent slope and within a mile of a road" is considered here as an acceptable standard for accessibility.

Using that definition we find much of Colorado's State and private woodlands is easily accessible (fig. 14). Nearly 2.0 million acres or 70 percent of the woodland area is within 1 mile of a road and has slopes of less than 30 percent. These acres contain the major proportion of the live and dead volume, net annual growth, and wood products available from Colorado's woodlands.

Moreover, because degree of slope has some bearing on site quality, these areas likely contain some of the better woodland sites. Thus, slope would be an indicator of areas to feature in management.

The distribution of the accessible area by forest type is virtually the same as the distribution of the total State and private woodland area: pinyon-juniper 59 percent, oak 23 percent, juniper 17 percent, and other woodland types 1 percent (fig. 15).

In addition to the above area, another 114,000 acres of State and private woodland in Colorado have slopes of less than 30 percent but are presently more than 1 mile from a road. The assumption of site quality and management potential apply to these acres as well.

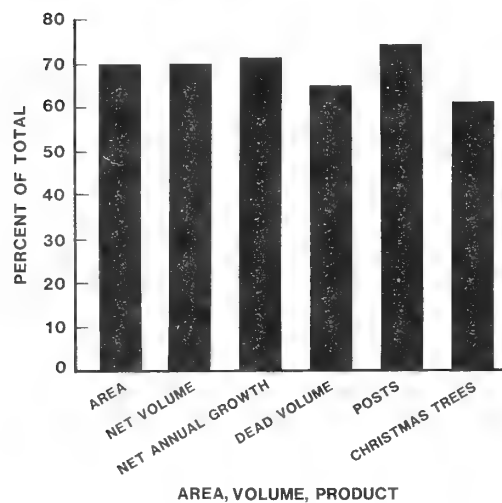


Figure 14—Percentage of State and private woodland on slopes less than 30 percent and within 1 mile of a road by area, volume, and wood product.

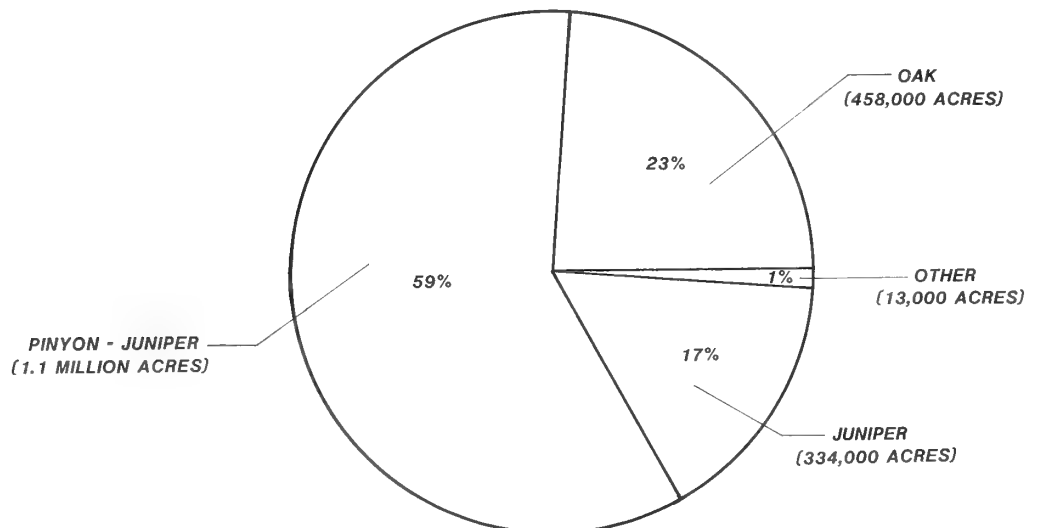


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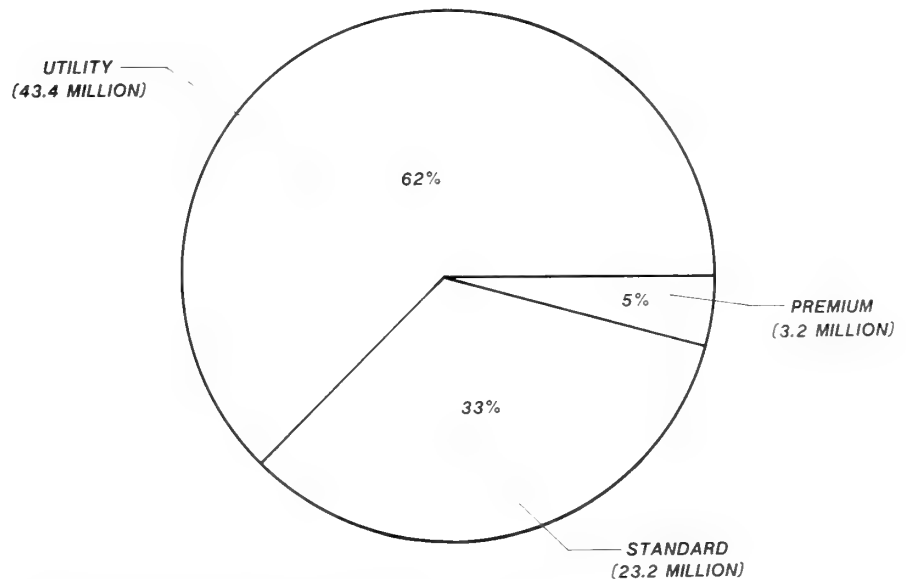


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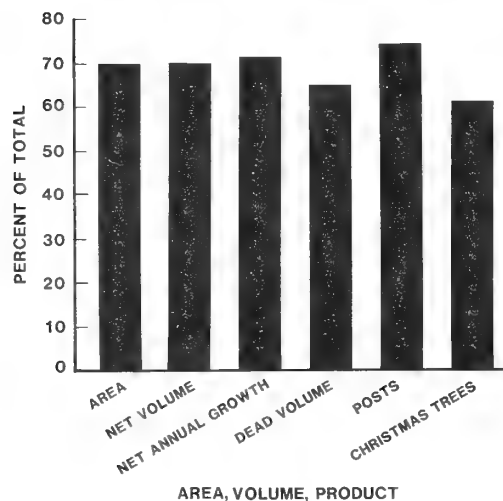


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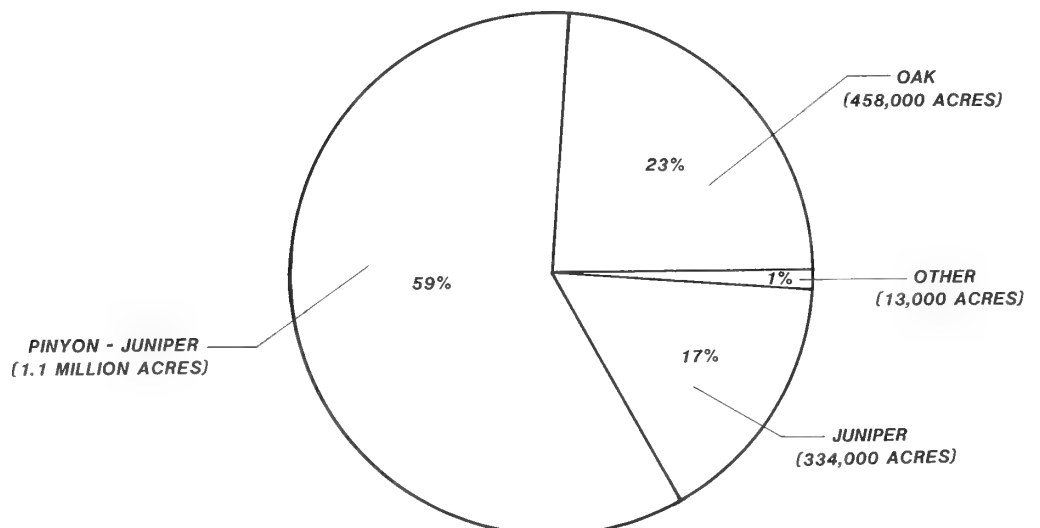


Figure 15—Area of State and private woodland on slopes less than 30 percent and within 1 mile of a road by forest type.

## HOW THE INVENTORY WAS CONDUCTED

The inventory was designed to provide reliable statistics primarily at the State and sample area levels.

### Prefield

Primary area estimates were based on the classification of 187,765 sample points systematically placed on the latest aerial photographs available. The photopoints, adjusted to meet known land areas by owner class, were used to stratify and compute expansion factors for the field sample data.

### Field

Land classification and estimates for woodland characteristics and volume were based on observations and measurements recorded at 3,340 ground sample locations, of which 1,216 were forested. Of the forested locations, 243 were classified as woodland. Sample trees were selected using fixed radius plots of 1/5, 1/10, or 1/20 acre for trees over 3 inches d.r.c., and 1/100 acre for trees less than 3 inches d.r.c.

### Compilation

All photo and field data were entered into a computer for editing, computation, and tabulation. Final estimates from these data were based on statistical summaries, a portion of which is included in this bulletin. Volume was computed using equations developed by Edminster and others (1980, 1981), Kemp (1958), Chojnacky (1985), Meyers (1964), and Meyers and others (1972). Defect was computed from field observations.

## DATA RELIABILITY

Individual cells within tables should be used with caution. Some are based on small sample sizes, which may result in high sampling errors. The standard error percentages shown in table 1 were calculated at the 67 percent confidence level.

## STANDARD FOREST SURVEY TERMINOLOGY

*Acceptable trees*—Growing-stock trees meeting specified standards of size and quality but not qualifying as desirable trees.

*Area condition class*—A classification of timberland reflecting the degree to which the site is being utilized by growing-stock trees and other conditions affecting current and prospective timber growth (see Stocking):

Class 10—Areas fully stocked with desirable trees and not overstocked.

Class 20—Areas fully stocked with desirable trees but overstocked with all live trees.

Class 30—Areas medium to fully stocked with desirable trees and with less than 30 percent of the area controlled by other trees, or inhibiting vegetation or surface conditions that will prevent occupancy by desirable trees, or both.

Class 40—Areas medium to fully stocked with desirable trees and with 30 percent or more of the area controlled by other trees, or conditions that ordinarily prevent occupancy by desirable trees, or both.

Class 50—Areas poorly stocked with desirable trees but fully stocked with growing-stock trees.

Class 60—Areas poorly stocked with desirable trees but with medium to full stocking of growing-stock trees.

Class 70—Areas nonstocked or poorly stocked with desirable trees and poorly stocked with growing-stock trees.

Class 80—Low-risk old-growth stands.

Class 90—High-risk old-growth stands.

Nonstocked—Areas less than 10 percent stocked with growing-stock trees.

*Basal area*—The cross-sectional area of a tree expressed in square feet. For timber species the calculation is based on diameter at breast height (d.b.h.); for woodland species it is based on diameter at root collar (d.r.c.).

*Christmas tree grade*—Pinyon species are classified as Christmas trees using the following guidelines:

Premium—Excellent conical form with no gaps in branches and a straight bole.

Standard—Good conical form with small gaps in branches and bole slightly malformed.

Utility—Conical in form with branches missing and bole bent or malformed.

Cull—Not meeting one of the above classifications or over 12 feet in height.

*Cord*—A pile of stacked wood equivalent to 128 cubic feet of wood and air space having standard dimensions of 4 by 4 by 8 feet.

*Cull trees*—Live trees that are unmerchantable now or prospectively (see Rough trees and Rotten trees).

*Cull volume*—Portions of a tree's volume that are not usable for wood products because of rot, form, missing material, or other cubic-foot defect. Form and sound defects include severe sweep and crook, forks, extreme form reduction, large deformities, and dead material.

*Deferred forest land*—Forest lands within the National Forest System that are under study for possible inclusion in the Wilderness System.

*Desirable trees*—Growing-stock trees (1) having no serious defect in quality to limit present or prospective use for timber products, (2) of relatively high vigor, and (3) containing no pathogens that may result in death or serious deterioration within the next decade.

*Diameter at breast height (d.b.h.)*—Diameter of the stem measured at 4.5 feet above the ground.

*Diameter at root collar (d.r.c.)*—Diameter equivalent at the point nearest the ground line that represents the basal area of the tree stem or stems.

*Diameter classes*—Tree diameters, either d.b.h. or d.r.c., grouped into 2-inch classes labeled by the midpoint of the class.

*Farmer/rancher-owned lands*—Lands owned by a person who operates a farm or a ranch and who either does the work or directly supervises the work.

*Forest industry lands*—Lands owned by companies or individuals operating a primary wood-processing plant.

*Forest lands*—Lands at least 10 percent stocked by forest trees of any size, including lands that formerly had such tree cover and that will be naturally or artificially regenerated. The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width at least 120 feet wide to qualify as forest land. Unimproved roads and trails, streams, and clearings in forest areas are classified as forest if less than 120 feet wide.

*Forest trees*—Woody plants having a well-developed stem or stems, usually more than 12 feet in height at maturity, with a generally well-defined crown.

*Forest type*—A classification of forest land based upon and named for the tree species presently forming a plurality of live-tree stocking.

*Gross annual growth*—The average annual increase in the net volume of trees during a specified period.

*Growing-stock trees*—Live sawtimber trees, poletimber trees, saplings, and seedlings of timber species meeting specified standards of quality and vigor; excludes cull trees.

*Growing-stock volume*—Net cubic-foot volume in live poletimber-size and sawtimber-size growing-stock trees from a 1-foot stump to a minimum 4-inch top (of central stem) outside bark or to the point where the central stem breaks into limbs.

*Growth*—See definition for Net annual growth.

*Hardwood trees*—Dicotyledonous trees, usually broad-leaved and deciduous.

*High-risk old-growth stands*—Timber stands over 100 years old in which the majority of the trees are not expected to survive more than 10 years.

*Indian lands*—Indian lands held in trust by the Federal Government.

*Industrial wood*—All commercial roundwood products except fuelwood.

*Land area*—The area of dry land and land temporarily or partially covered by water such as marshes, swamps, and river flood plains, streams, sloughs, estuaries, and canals less than 120 feet wide; and lakes, reservoirs, and ponds less than 1 acre in size.

*Logging residues*—The unused portions of growing-stock trees cut or killed by logging.

*Low-risk old-growth stands*—Timber stands over 100 years old in which the majority of the trees are expected to survive more than 10 years.

*Miscellaneous Federal lands*—Lands administered by Federal agencies other than the Forest Service, U.S. Department of Agriculture, or Bureau of Land Management, U.S. Department of the Interior.

*Mortality*—The net volume of growing-stock trees that have died from natural causes during a specified period.

*National Forest lands*—Public lands administered by the Forest Service, U.S. Department of Agriculture.

*National Resource lands*—Public lands administered by the Bureau of Land Management, U.S. Department of the Interior.

*Net annual growth*—Gross annual growth minus average annual mortality.

*Net dead volume*—Total net volume of dead trees plus the net volume of dead material in live trees.

*Net volume in board feet*—The gross board-foot volume in the sawlog portion of growing-stock trees, less deductions for cull volume.

*Net volume in cubic feet*—Gross cubic-foot volume in the merchantable portion of trees less deductions for cull volume. For timber species, volume is computed for the merchantable stem from a 1-foot stump to a minimum 4-inch top diameter outside bark (d.o.b.), or to the point where the central stem breaks into limbs. For woodland species, volume is computed outside bark (o.b.) for all woody material above d.r.c. that is larger than 1.5 inches d.o.b.

*Nonforest lands*—Lands that do not currently qualify as forest land.

*Nonindustrial private*—All private ownerships except forest industry.

*Nonstocked areas*—Forest land less than 10 percent stocked with live trees.

*Old-growth stands*—Stands of timber species over 100 years old.

*Other private lands*—Privately owned lands other than forest industry or farmer-owned.

*Other public lands*—Public lands administered by agencies other than the Forest Service, U.S. Department of Agriculture.

*Other removals*—The net volume of growing-stock trees removed from the inventory by cultural operations such as timber-stand improvement, by land clearing, and by changes in land use, such as a shift to wilderness.

*Poletimber stands*—Stands at least 10 percent stocked with growing-stock trees, in which half or more of the stocking is sawtimber or poletimber trees or both, with poletimber stocking exceeding that of sawtimber (see definition for Stocking).

*Poletimber trees*—Live trees of timber species at least 5 inches d.b.h. but smaller than sawtimber size.

*Posts*—Juniper and oak species are evaluated for post potential using the following criteria:  
     Line post—A 7-foot minimum length with 5 to 7 inches diameter at the butt, 2.5-inch minimum small end diameter, and reasonably straight and solid.  
     Corner post—An 8-foot minimum length with 7 to 9 inches diameter at the butt, 2.5-inch minimum small end diameter, and reasonably straight and solid.

*Potential growth*—The average net annual cubic-foot growth per acre at culmination of mean annual growth attainable in fully stocked natural stands.

*Primary wood-processing plants*—Plants using roundwood products such as sawlogs, pulpwood bolts, veneer logs, and so forth.

*Productivity class*—A classification of forest land that reflects biological potential. For timberlands the index used is the potential net annual growth at culmination of mean annual increment in fully stocked natural stands. For woodland, characteristics that affect the land's ability to produce wood, such as soil depth and aspect, are used. Furthermore, woodland is classified as high site where sustained wood production is likely, or low site where the continuous production of wood is unlikely.

*Removals*—The net volume of growing-stock trees removed from the inventory by harvesting, cultural operations, land clearings, or changes in land use.

*Reserved forest land*—Forest land withdrawn from tree utilization through statute or administrative designation.

*Residues:*

Coarse residues—Plant residues suitable for chipping, such as slabs, edgings, and ends.

Fine residues—Plant residues not suitable for chipping, such as sawdust, shavings, and veneer clippings.

Plant residues—Wood materials from primary manufacturing plants that are not used for any product.

*Rotten trees*—Live poletimber or sawtimber trees with more than 67 percent of their total volume cull (cubic-foot) and with more than half of the cull volume attributable to rotten or missing material.

*Rough trees*—Live poletimber or sawtimber trees with more than 67 percent of their total volume cull (cubic-foot) and with less than half of the cull volume attributable to rotten or missing material.

*Roundwood*—Logs, bolts, or other round sections cut from trees.

*Salvable dead trees*—Standing or down dead trees that are currently merchantable by regional standards.

*Saplings*—Live trees of timber species 1 to 4.9 inches d.b.h. or woodland species 1 to 2.9 inches d.r.c.

*Sapling and seedling stands*—Timberland stands at least 10 percent stocked on which more than half of the stocking is saplings or seedlings or both.

*Sawlog portion*—That part of the bole of sawtimber trees between a 1-foot stump and the sawlog top.

*Sawlog top*—The point on the bole of sawtimber trees above which a sawlog cannot be produced. The minimum sawlog top is 7 inches d.o.b. for softwoods and 9 inches d.o.b. for hardwoods.

*Sawtimber stands*—Stands at least 10 percent stocked with growing-stock trees, with half or more of total stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

*Sawtimber trees*—Live trees of timber species meeting regional size and defect specifications. Softwood trees must be at least 9 inches d.b.h. and hardwood trees 11 inches d.b.h.

*Sawtimber volume*—Net volume in board feet of the sawlog portion of live sawtimber trees.

*Seedlings*—Established live trees of timber species less than 1 inch d.b.h. or woodland species less than 1 inch d.r.c.

*Softwood trees*—Monocotyledonous trees, usually evergreen, having needle or scalelike leaves.

*Standard error*—An expression of the degree of confidence that can be placed on an estimated total or average obtained by statistical sampling methods. Standard errors do not include technique errors that could occur in photo classification of areas, field measurements, or compilation of data.

*Stand-size classes*—A classification of forest land based on the predominant size of trees present (see Sawtimber stands, Poletimber stands, and Sapling and seedling stands).

*State, county, and municipal lands*—Lands administered by States, counties, and local public agencies, or lands leased by these governmental units for more than 50 years.

*Stocking*—An expression of the extent to which growing space is effectively utilized by present or potential growing-stock trees of timber species.

*Timberland*—Forest land where timber species make up at least 10 percent stocking.

*Timber species*—Tree species traditionally used for industrial wood products. In the Rocky Mountain States, these include aspen and cottonwood hardwood species and all softwood species except pinyon and juniper.

*Timber stand improvement*—Treatments such as thinning, pruning, release cutting, girdling, weeding, or poisoning of unwanted trees aimed at improving growing conditions for the remaining trees.

*Upper-stem portion*—That part of the main stem or fork of sawtimber trees above the sawlog top to a minimum top diameter of 4 inches outside bark or to the point where the main stem or fork breaks into limbs.

*Water*—Streams, sloughs, estuaries, and canals more than 120 feet wide, and lakes, reservoirs, and ponds more than 1 acre in size at mean high water level.

*Wilderness*—An area of undeveloped land currently included in the Wilderness System, managed so as to preserve its natural conditions and retain its primeval character and influence.

*Woodland*—Forest land where timber species make up less than 10 percent stocking.

*Woodland species*—Tree species not usually converted into industrial wood products. Common uses are fuelwood, fenceposts, and Christmas trees.

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# FOREST SURVEY TABLES

Table 1--Area of State and privately owned forest land with percent standard error, Colorado, 1983

| Item                              | Softwoods      |                        | Hardwoods      |                        | All types      |                        |
|-----------------------------------|----------------|------------------------|----------------|------------------------|----------------|------------------------|
|                                   | Thousand acres | Percent standard error | Thousand acres | Percent standard error | Thousand acres | Percent standard error |
| Timberland                        | 2,655.2        | ± 3.1                  | 945.2          | ± 5.9                  | 3,600.4        | ± 2.4                  |
| Woodland                          | 2,103.4        | ± 4.2                  | 683.2          | ±10.7                  | 2,786.6        | ± 3.8                  |
| Reserved forest land <sup>1</sup> |                |                        |                |                        |                |                        |
| Timberland                        | 15.3           |                        | 3.6            |                        | 18.9           |                        |
| Woodland                          | 4.5            |                        | 2.4            |                        | 6.9            |                        |
| Total forest land <sup>2</sup>    | 4,778.4        |                        | 1,634.4        |                        | 6,412.8        |                        |

<sup>1</sup>Reserved land areas are estimated from aerial photos without field verification; therefore, standard errors are not calculated.

<sup>2</sup>On this and all following tables, totals may vary due to rounding.

Table 2--Total land and water area by ownership class, Colorado, 1983

| Ownership class                   | Area                          |
|-----------------------------------|-------------------------------|
|                                   | - - <u>Thousand acres</u> - - |
| Land:                             |                               |
| Public:                           |                               |
| National Forest                   | 14,430.8                      |
| Other Public:                     |                               |
| Bureau of Land Management         | 8,333.0                       |
| National Parks <sup>1</sup>       | 610.3                         |
| Miscellaneous Federal             | 271.6                         |
| State                             | 3,022.9                       |
| County and municipal              | 316.2                         |
| Total other public                | 11,943.7                      |
| Total public                      | 26,984.8                      |
| Private                           | 39,315.9                      |
| Total land area                   | 66,300.7                      |
| Census water                      | 317.5                         |
| Total land and water <sup>2</sup> | 66,618.2                      |

<sup>1</sup>National Park area is included in this table only. No volume tables are included for National Parks.

<sup>2</sup>U.S. Bureau of the Census, land and water area of the United States, 1980.



Table 3--Total land area on State and privately owned land by major land class and ownership class, Colorado, 1983

| Land class                         | Ownership class |          | Total    |
|------------------------------------|-----------------|----------|----------|
|                                    | State           | Private  |          |
| - - - - - Thousand acres - - - - - |                 |          |          |
| Timberland:                        |                 |          |          |
| Reserved                           | 18.9            | --       | 18.9     |
| Nonreserved                        | 235.2           | 3,365.2  | 3,600.4  |
| Total                              | 254.1           | 3,365.2  | 3,619.3  |
| Woodland:                          |                 |          |          |
| Reserved                           | 6.9             | --       | 6.9      |
| Nonreserved                        | 161.2           | 2,625.4  | 2,786.6  |
| Total                              | 168.1           | 2,625.4  | 2,793.5  |
| Total forest land:                 |                 |          |          |
| Reserved                           | 25.8            | --       | 25.8     |
| Nonreserved                        | 396.4           | 5,990.6  | 6,412.8  |
| Total                              | 422.2           | 5,990.6  | 6,412.8  |
| Nonforest land <sup>1</sup>        | 2,600.7         | 33,325.3 | 35,926.0 |
| Total land area                    | 3,022.9         | 39,315.9 | 42,338.8 |

<sup>1</sup>Includes all of eastern Colorado, which was administratively determined to be nonforest land.

Table 4--Area of woodland on State and privately owned land by forest type, ownership class, and land class, Colorado, 1983

| Forest type                        | Ownership class and land class |             |          |             |            |             |
|------------------------------------|--------------------------------|-------------|----------|-------------|------------|-------------|
|                                    | State                          |             | Private  |             | All owners |             |
|                                    | Reserved                       | Nonreserved | Reserved | Nonreserved | Reserved   | Nonreserved |
| - - - - - Thousand acres - - - - - |                                |             |          |             |            |             |
| Pinyon-juniper                     | 4.5                            | 98.3        | --       | 1,567.6     | 4.5        | 1,665.9     |
| Juniper                            | --                             | 31.1        | --       | 406.4       | --         | 437.5       |
| Oak                                | 2.4                            | 31.4        | --       | 638.5       | 2.4        | 669.9       |
| Other western hardwoods            | --                             | 0.4         | --       | 12.9        | --         | 13.3        |
| Total                              | 6.9                            | 161.2       | --       | 2,625.4     | 6.9        | 2,786.6     |

Table 5--Area of State and privately owned woodland by forest type and ownership class, Colorado, 1983

| Forest type                | Ownership class |         |         |
|----------------------------|-----------------|---------|---------|
|                            | State           | Private | Total   |
| ----- Thousand acres ----- |                 |         |         |
| Pinyon-juniper             | 98.3            | 1,567.6 | 1,665.9 |
| Juniper                    | 31.1            | 406.4   | 437.5   |
| Total woodland softwoods   | 129.4           | 1,974.0 | 2,103.4 |
| Oak                        | 31.4            | 638.5   | 669.9   |
| Other western hardwoods    | 0.4             | 12.9    | 13.3    |
| Total woodland hardwoods   | 31.8            | 651.4   | 683.2   |
| All types                  | 161.2           | 2,625.4 | 2,786.6 |

Table 6--Net volume of State and privately owned woodland by species and ownership class, Colorado, 1983

| Species                         | Ownership class |           |           |
|---------------------------------|-----------------|-----------|-----------|
|                                 | State           | Private   | Total     |
| ----- Thousand cubic feet ----- |                 |           |           |
| Douglas-fir                     | 5               | 184       | 189       |
| Ponderosa pine                  | 13              | 303       | 316       |
| Aspen                           | 180             | 4,431     | 4,611     |
| Woodland softwoods              | 53,494          | 917,020   | 970,514   |
| Woodland hardwoods              | 7,319           | 115,496   | 122,815   |
| All species                     | 61,011          | 1,037,434 | 1,098,445 |

Table 7--Net annual growth of State and privately owned woodland by species and ownership class, Colorado, 1982

| Species                         | Ownership class |         |        |
|---------------------------------|-----------------|---------|--------|
|                                 | State           | Private | Total  |
| ----- Thousand cubic feet ----- |                 |         |        |
| Douglas-fir                     | 4               | 122     | 126    |
| Ponderosa pine                  | (1)             | 4       | 4      |
| Aspen                           | 5               | 120     | 125    |
| Woodland softwoods              | 545             | 9,366   | 9,911  |
| Woodland hardwoods              | 244             | 5,078   | 5,322  |
| All species                     | 798             | 14,690  | 15,488 |

<sup>1</sup>Less than 0.5 thousand cubic feet.

Table 8--Annual mortality of State and privately owned woodland by species and ownership class, Colorado, 1982

| Species                                | Ownership class |         |       |
|--|-----------------|---------|-------|
|  | State           | Private | Total |
| ----- <u>Thousand cubic feet</u> ----- |                 |         |       |
| Douglas-fir                            | --              | --      | --    |
| Ponderosa pine                         | --              | --      | --    |
| Aspen                                  | (1)             | 8       | 8     |
| Woodland softwoods                     | 118             | 1,543   | 1,661 |
| Woodland hardwoods                     | 41              | 570     | 611   |
| All species                            | 159             | 2,121   | 2,280 |

<sup>1</sup>Less than 0.5 thousand cubic feet.

Table 9--Area of State and privately owned woodland by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                   | Site class  | Forest type    |         |     |                  | All types |
|-----------------------------------|-------------|----------------|---------|-----|------------------|-----------|
|                                   |             | Pinyon-juniper | Juniper | Oak | Other            |           |
| ----- <u>Thousand acres</u> ----- |             |                |         |     |                  |           |
| State:                            | High site   | 84             | 23      | 19  | ( <sup>1</sup> ) | 126       |
|                                   | Low site    | 15             | 8       | 12  | ( <sup>1</sup> ) | 35        |
|                                   | All classes | 99             | 31      | 31  | ( <sup>1</sup> ) | 161       |
| Private:                          | High site   | 1,253          | 314     | 433 | 3                | 2,003     |
|                                   | Low site    | 314            | 93      | 206 | 10               | 623       |
|                                   | All classes | 1,567          | 407     | 639 | 13               | 2,626     |
| All owners:                       | High site   | 1,337          | 337     | 452 | 3                | 2,129     |
|                                   | Low site    | 329            | 101     | 218 | 10               | 658       |
|                                   | All classes | 1,666          | 438     | 670 | 13               | 2,787     |

<sup>1</sup>Less than 0.5 thousand acres.

Table 10--Area of State and privately owned woodland by ownership class, volume class, and forest type, Colorado, 1983

| Ownership class            | Volume class<br>(cu ft/acre) | Forest type    |         |     |       |           |
|----------------------------|------------------------------|----------------|---------|-----|-------|-----------|
|                            |                              | Pinyon-juniper | Juniper | Oak | Other | All types |
| ----- Thousand acres ----- |                              |                |         |     |       |           |
| State:                     | 0 - 500                      | 58             | 26      | 28  | (1)   | 112       |
|                            | 500 - 1,000                  | 26             | 5       | 1   | --    | 32        |
|                            | 1,000+                       | 14             | 1       | 2   | (1)   | 17        |
|                            | All classes                  | 98             | 32      | 31  | (1)   | 161       |
| Private:                   | 0 - 500                      | 867            | 325     | 594 | 10    | 1,796     |
|                            | 500 - 1,000                  | 396            | 69      | 30  | --    | 495       |
|                            | 1,000+                       | 305            | 12      | 15  | 3     | 335       |
|                            | All classes                  | 1,568          | 406     | 639 | 13    | 2,626     |
| All owners:                | 0 - 500                      | 925            | 351     | 622 | 10    | 1,908     |
|                            | 500 - 1,000                  | 422            | 74      | 31  | --    | 527       |
|                            | 1,000+                       | 319            | 13      | 17  | 3     | 352       |
|                            | All classes                  | 1,666          | 438     | 670 | 13    | 2,787     |

<sup>1</sup>Less than 0.5 thousand acres.

Table 11--Net volume on State and privately owned woodland by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                            | Site class  | Forest type    |         |         |       | All types <sup>1</sup> |
|--|-------------|----------------|---------|---------|-------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak     | Other |                        |
| <hr/>                                      |             |                |         |         |       |                        |
| <div>----- Thousand cubic feet -----</div> |             |                |         |         |       |                        |
| State:                                     | High site   | 38,024         | 7,316   | 3,830   | 244   | 49,414                 |
|  | Low site    | 6,838          | 1,518   | 3,039   | 3     | 11,398                 |
|  | All classes | 44,862         | 8,834   | 6,869   | 247   | 60,812                 |
| Private:                                   | High site   | 635,429        | 107,097 | 75,658  | 4,946 | 823,130                |
|  | Low site    | 160,801        | 19,639  | 28,835  | 112   | 209,387                |
|  | All classes | 796,230        | 126,736 | 104,493 | 5,058 | 1,032,517              |
| All owners:                                | High site   | 673,453        | 114,413 | 79,488  | 5,190 | 872,544                |
|  | Low site    | 167,639        | 21,157  | 31,874  | 115   | 220,785                |
|  | All classes | 841,092        | 135,570 | 111,362 | 5,305 | 1,093,329              |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 12--Net volume on State and privately owned woodland by ownership class, volume class, and forest type, Colorado, 1983

| Ownership class                            | Volume class<br>(cu ft/acre) | Forest type    |         |         |       |                        |
|--|------------------------------|----------------|---------|---------|-------|------------------------|
|  |                              | Pinyon-juniper | Juniper | Oak     | Other | All types <sup>1</sup> |
| <hr/>                                      |                              |                |         |         |       |                        |
| <div>----- Thousand cubic feet -----</div> |                              |                |         |         |       |                        |
| State:                                     |                              |                |         |         |       |                        |
|  | 0 - 500                      | 13,778         | 4,875   | 3,407   | 3     | 22,063                 |
|  | 500 - 1,000                  | 16,171         | 2,705   | 636     | --    | 19,512                 |
|  | 1,000+                       | 14,914         | 1,254   | 2,826   | 244   | 19,238                 |
|  | All classes                  | 44,863         | 8,834   | 6,869   | 247   | 60,813                 |
| Private:                                   |                              |                |         |         |       |                        |
|  | 0 - 500                      | 208,097        | 60,892  | 66,166  | 112   | 335,267                |
|  | 500 - 1,000                  | 246,076        | 38,757  | 15,154  | --    | 299,987                |
|  | 1,000+                       | 342,056        | 27,087  | 23,173  | 4,946 | 397,262                |
|  | All classes                  | 796,229        | 126,736 | 104,493 | 5,058 | 1,032,516              |
| All owners:                                |                              |                |         |         |       |                        |
|  | 0 - 500                      | 221,875        | 65,767  | 69,573  | 115   | 357,330                |
|  | 500 - 1,000                  | 262,247        | 41,462  | 15,790  | --    | 319,499                |
|  | 1,000+                       | 356,970        | 28,341  | 25,999  | 5,190 | 416,500                |
|  | All classes                  | 841,092        | 135,570 | 111,362 | 5,305 | 1,093,329              |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 13--Net annual growth on State and privately owned woodland by ownership class, site class, and forest type, Colorado, 1982

| Ownership class                            | Site class  | Forest type    |         |       |                  | All types <sup>1</sup> |
|--|-------------|----------------|---------|-------|------------------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak   | Other            |                        |
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| <div>----- Thousand cubic feet -----</div> |             |                |         |       |                  |                        |
| State:                                     |             |                |         |       |                  |                        |
|  | High site   | 491            | 122     | 168   | 1                | 782                    |
|  | Low site    | -72            | 11      | 66    | ( <sup>2</sup> ) | 5                      |
|  | All classes | 419            | 133     | 234   | 1                | 787                    |
| Private:                                   |             |                |         |       |                  |                        |
|  | High site   | 7,700          | 1,542   | 4,081 | 22               | 13,345                 |
|  | Low site    | 174            | 120     | 800   | 7                | 1,101                  |
|  | All classes | 7,874          | 1,662   | 4,881 | 29               | 14,446                 |
| All owners:                                |             |                |         |       |                  |                        |
|  | High site   | 8,191          | 1,664   | 4,249 | 23               | 14,127                 |
|  | Low site    | 102            | 131     | 866   | 7                | 1,106                  |
|  | All classes | 8,293          | 1,795   | 5,115 | 30               | 15,233                 |

<sup>1</sup>Does not include timber species in woodland forest types.

<sup>2</sup>Less than 0.5 thousand cubic feet.

Table 14--Net annual growth on State and privately owned woodland by ownership class, volume class, and forest type, Colorado, 1982

| Ownership<br>class                         | Volume<br>class<br>(cu ft/acre) | Forest type        |         |       |                  | All types <sup>1</sup> |
|--|---------------------------------|--------------------|---------|-------|------------------|------------------------|
|  |                                 | Pinyon-<br>juniper | Juniper | Oak   | Other            |                        |
| <hr/>                                      |                                 |                    |         |       |                  |                        |
| <div>----- Thousand cubic feet -----</div> |                                 |                    |         |       |                  |                        |
| State:                                     |                                 |                    |         |       |                  |                        |
|  | 0 - 500                         | 244                | 98      | 191   | ( <sup>2</sup> ) | 533                    |
|  | 500 - 1,000                     | 42                 | 28      | 45    | --               | 115                    |
|  | 1,000+                          | 133                | 7       | -1    | 1                | 140                    |
|  | All classes                     | 419                | 133     | 235   | 1                | 788                    |
| Private:                                   |                                 |                    |         |       |                  |                        |
|  | 0 - 500                         | 3,552              | 1,116   | 3,552 | 7                | 8,227                  |
|  | 500 - 1,000                     | 1,391              | 404     | 1,372 | --               | 3,167                  |
|  | 1,000+                          | 2,931              | 142     | -44   | 22               | 3,051                  |
|  | All classes                     | 7,874              | 1,662   | 4,880 | 29               | 14,445                 |
| All owners:                                |                                 |                    |         |       |                  |                        |
|  | 0 - 500                         | 3,796              | 1,214   | 3,743 | 7                | 8,760                  |
|  | 500 - 1,000                     | 1,433              | 432     | 1,417 | --               | 3,282                  |
|  | 1,000+                          | 3,064              | 149     | -45   | 23               | 3,191                  |
|  | All classes                     | 8,293              | 1,795   | 5,115 | 30               | 15,233                 |

<sup>1</sup>Does not include timber species in woodland forest types.

<sup>2</sup>Less than 0.5 thousand cubic feet.

Table 15--Net dead volume on State and privately owned woodland by ownership class, site class, and forest type, Colorado, 1983

| Ownership class | Site class | Forest type    |         |     |       | All types <sup>1</sup> |
|-----------------|------------|----------------|---------|-----|-------|------------------------|
|                 |            | Pinyon-juniper | Juniper | Oak | Other |                        |
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<sup>1</sup>Does not include timber species in woodland forest types.

Table 16--Net dead volume on State and privately owned woodland by ownership class, volume class, and forest type, Colorado, 1983

| Ownership class | Volume class<br>(cu ft/acre) | Forest type                     |         |        |       |                        |
|-----------------|------------------------------|---------------------------------|---------|--------|-------|------------------------|
|                 |                              | Pinyon-juniper                  | Juniper | Oak    | Other | All types <sup>1</sup> |
|                 |                              | ----- Thousand cubic feet ----- |         |        |       |                        |
| State:          |                              |                                 |         |        |       |                        |
|                 | 0 - 500                      | 1,101                           | 368     | 239    | --    | 1,708                  |
|                 | 500 - 1,000                  | 2,336                           | 109     | 104    | --    | 2,549                  |
|                 | 1,000+                       | 1,567                           | 110     | 283    | 24    | 1,984                  |
|                 | All classes                  | 5,004                           | 587     | 626    | 24    | 6,241                  |
| Private:        |                              |                                 |         |        |       |                        |
|                 | 0 - 500                      | 17,484                          | 9,995   | 6,284  | --    | 33,763                 |
|                 | 500 - 1,000                  | 35,580                          | 2,150   | 2,392  | --    | 40,122                 |
|                 | 1,000+                       | 50,610                          | 2,379   | 2,591  | 495   | 56,075                 |
|                 | All classes                  | 103,674                         | 14,524  | 11,267 | 495   | 129,960                |
| All owners:     |                              |                                 |         |        |       |                        |
|                 | 0 - 500                      | 18,585                          | 10,363  | 6,523  | --    | 35,471                 |
|                 | 500 - 1,000                  | 37,916                          | 2,259   | 2,496  | --    | 42,671                 |
|                 | 1,000+                       | 52,177                          | 2,489   | 2,874  | 519   | 58,059                 |
|                 | All classes                  | 108,678                         | 15,111  | 11,893 | 519   | 136,201                |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 17--Number of trees on State and privately owned woodland by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    | All<br>classes |
|--------------------------------|--|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----|----------------|
|                                | 1.0-<br>2.9                            | 3.0-<br>4.9 | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |    |                |
| ----- Thousand trees -----     |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| State:                         |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 4,219                                  | 2,340       | 2,046       | 1,629       | 1,001        | 595           | 417           | 99            | 21            | 135           | 12            | 21            | --            | 9             | --    | -- | 12,544         |
| Juniper                        | 1,856                                  | 1,200       | 1,250       | 1,407       | 864          | 843           | 633           | 555           | 447           | 167           | 171           | 90            | 146           | 79            | 127   | -- | 9,835          |
| Oak                            | 37,711                                 | 11,307      | 1,096       | 128         | 94           | 156           | 83            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 50,575         |
| Other                          | 858                                    | 58          | 28          | 16          | 14           | 9             | --            | --            | --            | --            | --            | --            | --            | --            | 4     | -- | 987            |
| All species <sup>1</sup>       | 44,644                                 | 14,905      | 4,420       | 3,180       | 1,973        | 1,603         | 1,133         | 654           | 468           | 302           | 183           | 111           | 146           | 88            | 131   | -- | 73,941         |
| Private:                       |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 81,556                                 | 46,478      | 37,772      | 26,750      | 15,215       | 8,733         | 5,731         | 2,348         | 563           | 960           | 442           | 104           | --            | 82            | --    | -- | 226,734        |
| Juniper                        | 31,326                                 | 21,068      | 20,203      | 20,266      | 15,471       | 15,413        | 10,863        | 10,959        | 7,179         | 4,112         | 3,255         | 2,196         | 1,910         | 1,119         | 2,058 | -- | 167,398        |
| Oak                            | 702,210                                | 231,737     | 20,641      | 2,448       | 1,051        | 1,221         | 635           | --            | --            | --            | --            | --            | --            | --            | --    | -- | 959,943        |
| Other                          | 9,887                                  | 1,960       | 912         | 482         | 570          | 380           | --            | --            | --            | --            | --            | --            | --            | --            | 69    | -- | 14,260         |
| All species <sup>1</sup>       | 824,979                                | 301,243     | 79,528      | 49,946      | 32,307       | 25,747        | 17,229        | 13,307        | 7,742         | 5,072         | 3,697         | 2,300         | 1,910         | 1,201         | 2,127 | -- | 1,368,335      |
| All owners:                    |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 85,775                                 | 48,818      | 39,818      | 28,379      | 16,216       | 9,328         | 6,148         | 2,447         | 584           | 1,095         | 454           | 125           | --            | 91            | --    | -- | 239,278        |
| Juniper                        | 33,182                                 | 22,268      | 21,453      | 21,673      | 16,335       | 16,256        | 11,496        | 11,514        | 7,626         | 4,279         | 3,426         | 2,286         | 2,056         | 1,198         | 2,185 | -- | 177,233        |
| Oak                            | 739,921                                | 243,044     | 21,737      | 2,576       | 1,145        | 1,377         | 718           | --            | --            | --            | --            | --            | --            | --            | --    | -- | 1,010,518      |
| Other                          | 10,745                                 | 2,018       | 940         | 498         | 584          | 389           | --            | --            | --            | --            | --            | --            | --            | --            | 73    | -- | 15,247         |
| All species <sup>1</sup>       | 869,623                                | 316,148     | 83,948      | 53,126      | 34,280       | 27,350        | 18,362        | 13,961        | 8,210         | 5,374         | 3,880         | 2,411         | 2,056         | 1,289         | 2,258 | -- | 1,442,276      |

<sup>1</sup>Does not include timber species in woodland forest types.



Table 18--Net volume on State and privately owned woodland by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |  |  |  |  |  |  |  |  |  |  |  |  |  | 29.0+ | 27.0-<br>28.9 | 25.0-<br>26.9 | 23.0-<br>24.9 | 21.0-<br>22.9 | 19.0-<br>20.9 | 17.0-<br>18.9 | 15.0-<br>16.9 | 13.0-<br>14.9 | 11.0-<br>12.9 | 9.0-<br>10.9 | 7.0-<br>8.9 | 5.0-<br>6.9 | 3.0-<br>4.9 | All<br>classes |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                | Thousand cubic feet                    |  |  |  |  |  |  |  |  |  |  |  |  |  |       |               |               |               |               |               |               |               |               |               |              |             |             |             |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| State:                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |               |               |               |               |               |               |               |               |               |              |             |             |             |                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 19--Net annual growth on State and privately owned woodland by ownership class, species, and diameter class, Colorado, 1982

| Ownership class<br>and species  | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |       |  |  | All<br>classes |
|---------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|--|--|----------------|
|                                 | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |  |  |                |
| ----- Thousand cubic feet ----- |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |  |                |
| State:                          |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |  |                |
| Pinyon                          | 43                                     | 58          | 86          | 64           | 52            | 42            | 13            | 2             | 11            | -112          | 4             | --            | 3             | --    |  |  | 266            |
| Juniper                         | 9                                      | 23          | 45          | 33           | 38            | 25            | 37            | 20            | 8             | 11            | 5             | 17            | 3             | 6     |  |  | 280            |
| Oak                             | 209                                    | 1           | 6           | 8            | 14            | 4             | --            | --            | --            | --            | --            | --            | --            | --    |  |  | 242            |
| Other                           | -1                                     | --          | (1)         | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 1     |  |  | --             |
| All species <sup>2</sup>        | 260                                    | 82          | 137         | 105          | 104           | 71            | 50            | 22            | 19            | -101          | 9             | 17            | 6             | 7     |  |  | 788            |
| Private:                        |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |  |                |
| Pinyon                          | 739                                    | 937         | 1,284       | 852          | 629           | 643           | 309           | 86            | 91            | -1,005        | 18            | --            | 27            | --    |  |  | 4,610          |
| Juniper                         | 240                                    | 349         | 599         | 541          | 619           | 401           | 669           | 342           | 247           | 263           | 131           | 182           | 55            | 116   |  |  | 4,754          |
| Oak                             | 4,603                                  | 166         | 84          | 81           | 109           | 30            | --            | --            | --            | --            | --            | --            | --            | --    |  |  | 5,073          |
| Other                           | -22                                    | -2          | 9           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 22    |  |  | 7              |
| All species <sup>2</sup>        | 5,560                                  | 1,450       | 1,976       | 1,474        | 1,357         | 1,074         | 978           | 428           | 338           | -742          | 149           | 182           | 82            | 138   |  |  | 14,444         |
| All owners:                     |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |  |                |
| Pinyon                          | 782                                    | 995         | 1,370       | 916          | 681           | 685           | 322           | 88            | 102           | -1,117        | 22            | --            | 30            | --    |  |  | 4,876          |
| Juniper                         | 249                                    | 372         | 644         | 574          | 657           | 426           | 706           | 362           | 255           | 274           | 136           | 199           | 58            | 122   |  |  | 5,034          |
| Oak                             | 4,812                                  | 167         | 90          | 89           | 123           | 34            | --            | --            | --            | --            | --            | --            | --            | --    |  |  | 5,315          |
| Other                           | -23                                    | -2          | 9           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 23    |  |  | 7              |
| All species <sup>2</sup>        | 5,820                                  | 1,532       | 2,113       | 1,579        | 1,461         | 1,145         | 1,028         | 450           | 357           | -843          | 158           | 199           | 88            | 145   |  |  | 15,232         |

<sup>1</sup>Less than 0.5 thousand acres.

<sup>2</sup>Does not include timber species in woodland forest types.

Table 20--Net dead volume on State and privately owned woodland by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species  | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |       | All<br>classes |
|---------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----------------|
|                                 | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |                |
| ----- Thousand cubic feet ----- |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| State:                          |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                          | 6                                      | 96          | 270         | 458          | 491           | 310           | 184           | 19            | --            | 576           | --            | --            | 295           | --    | 2,705          |
| Juniper                         | 10                                     | 24          | 120         | 176          | 176           | 183           | 221           | 169           | 105           | 147           | 246           | 21            | 579           | 690   | 2,867          |
| Oak                             | 317                                    | 203         | 85          | 25           | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | 630            |
| Other                           | 9                                      | 7           | 2           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 24    | 42             |
| All species <sup>1</sup>        | 342                                    | 330         | 477         | 659          | 667           | 493           | 405           | 188           | 105           | 723           | 246           | 21            | 874           | 714   | 6,244          |
| Private:                        |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                          | 476                                    | 2,401       | 4,032       | 11,329       | 6,012         | 4,381         | 7,405         | 1,378         | --            | 5,515         | --            | --            | 2,298         | --    | 45,227         |
| Juniper                         | 271                                    | 752         | 3,823       | 4,263        | 9,779         | 4,324         | 8,295         | 9,908         | 5,307         | 6,240         | 6,778         | 570           | 4,301         | 7,967 | 72,578         |
| Oak                             | 6,462                                  | 3,590       | 805         | 282          | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | 11,139         |
| Other                           | 262                                    | 200         | 57          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 495   | 1,014          |
| All species <sup>1</sup>        | 7,471                                  | 6,943       | 8,717       | 15,874       | 15,791        | 8,705         | 15,700        | 11,286        | 5,307         | 11,755        | 6,778         | 570           | 6,599         | 8,462 | 129,958        |
| All owners:                     |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                          | 482                                    | 2,497       | 4,302       | 11,787       | 6,503         | 4,691         | 7,589         | 1,397         | --            | 6,091         | --            | --            | 2,593         | --    | 47,932         |
| Juniper                         | 281                                    | 776         | 3,943       | 4,439        | 9,955         | 4,507         | 8,516         | 10,077        | 5,412         | 6,387         | 7,024         | 591           | 4,880         | 8,657 | 75,445         |
| Oak                             | 6,779                                  | 3,793       | 890         | 307          | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | 11,769         |
| Other                           | 271                                    | 207         | 59          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 519   | 1,056          |
| All species <sup>1</sup>        | 7,813                                  | 7,273       | 9,194       | 16,533       | 16,458        | 9,198         | 16,105        | 11,474        | 5,412         | 12,478        | 7,024         | 591           | 7,473         | 9,176 | 136,202        |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 21--Number of pinyon Christmas trees on State and privately owned woodland by ownership class, height class, and grade class, Colorado, 1983

| Ownership class | Height class (feet) | Grade class |          |         |            |
|-----------------|---------------------|-------------|----------|---------|------------|
|                 |                     | Premium     | Standard | Utility | All grades |

- - - - - Thousand trees - - - - -

|             |             |       |        |        |        |
|-------------|-------------|-------|--------|--------|--------|
| State:      |             |       |        |        |        |
|             | 0 - 5       | 0     | 323    | 1,317  | 1,640  |
|             | 6 - 10      | 45    | 727    | 623    | 1,395  |
|             | 11 - 12     | 6     | 67     | 173    | 246    |
|             | All classes | 51    | 1,117  | 2,113  | 3,281  |
| Private:    |             |       |        |        |        |
|             | 0 - 5       | 89    | 5,114  | 24,856 | 30,059 |
|             | 6 - 10      | 2,689 | 15,557 | 12,746 | 30,992 |
|             | 11 - 12     | 351   | 1,396  | 3,700  | 5,447  |
|             | All classes | 3,129 | 22,067 | 41,302 | 66,498 |
| All owners: |             |       |        |        |        |
|             | 0 - 5       | 89    | 5,437  | 26,173 | 31,699 |
|             | 6 - 10      | 2,734 | 16,284 | 13,369 | 32,387 |
|             | 11 - 12     | 357   | 1,463  | 3,873  | 5,693  |
|             | All classes | 3,180 | 23,184 | 43,415 | 69,779 |

Table 22--Number of fenceposts on State and privately owned woodland by ownership class, type of post, and species, Colorado, 1983

| Ownership class | Type of post | Species |         |     | All species |
|-----------------|--------------|---------|---------|-----|-------------|
|                 |              | Pinyon  | Juniper | Oak |             |

- - - - - Thousand fenceposts - - - - -

|             |           |        |         |       |         |
|-------------|-----------|--------|---------|-------|---------|
| State:      |           |        |         |       |         |
|             | Line      | 2,305  | 4,699   | 156   | 7,160   |
|             | Corner    | 1,252  | 2,193   | 14    | 3,459   |
|             | All posts | 3,557  | 6,892   | 170   | 10,619  |
| Private:    |           |        |         |       |         |
|             | Line      | 25,954 | 66,056  | 5,336 | 97,346  |
|             | Corner    | 14,050 | 36,442  | 272   | 50,764  |
|             | All posts | 40,004 | 102,498 | 5,608 | 148,110 |
| All owners: |           |        |         |       |         |
|             | Line      | 28,259 | 70,755  | 5,492 | 104,506 |
|             | Corner    | 15,302 | 38,635  | 286   | 54,223  |
|             | All posts | 43,561 | 109,390 | 5,778 | 158,729 |

Table 23--Area of State and privately owned woodland on less than 30 percent slope by ownership class, site class, and forest type, Colorado, 1983

| Ownership class          | Site class  | Forest type    |         |     |       |           |
|--------------------------|-------------|----------------|---------|-----|-------|-----------|
|                          |             | Pinyon-juniper | Juniper | Oak | Other | All types |
| <hr/>                    |             |                |         |     |       |           |
| <hr/>                    |             |                |         |     |       |           |
| -----Thousand acres----- |             |                |         |     |       |           |
| State:                   |             |                |         |     |       |           |
|                          | High site   | 64             | 21      | 14  | (1)   | 99        |
|                          | Low site    | 4              | 6       | 8   | (1)   | 18        |
|                          | All classes | 68             | 27      | 22  | (1)   | 117       |
| Private:                 |             |                |         |     |       |           |
|                          | High site   | 989            | 272     | 315 | 3     | 1,579     |
|                          | Low site    | 155            | 53      | 154 | 10    | 372       |
|                          | All classes | 1,144          | 325     | 469 | 13    | 1,951     |
| All owners:              |             |                |         |     |       |           |
|                          | High site   | 1,053          | 293     | 329 | 3     | 1,678     |
|                          | Low site    | 159            | 59      | 162 | 10    | 390       |
|                          | All classes | 1,212          | 352     | 491 | 13    | 2,068     |

<sup>1</sup>Less than 0.5 thousand acres.

Table 24--Area of State and privately owned woodland on less than 30 percent slope by ownership class, volume class, and forest type, Colorado, 1983

| Ownership<br>class       | Volume<br>class<br>(cu ft/acre) | Forest type        |         |     |       | All types |
|--------------------------|---------------------------------|--------------------|---------|-----|-------|-----------|
|                          |                                 | Pinyon-<br>juniper | Juniper | Oak | Other |           |
| <hr/>                    |                                 |                    |         |     |       |           |
| -----Thousand acres----- |                                 |                    |         |     |       |           |
| State:                   |                                 |                    |         |     |       |           |
|                          | 0 - 500                         | 45                 | 24      | 19  | (1)   | 88        |
|                          | 500 - 1,000                     | 17                 | 3       | 1   | --    | 21        |
|                          | 1,000+                          | 6                  | --      | 2   | (1)   | 8         |
|                          | All classes                     | 68                 | 27      | 22  | (1)   | 117       |
| Private:                 |                                 |                    |         |     |       |           |
|                          | 0 - 500                         | 643                | 281     | 429 | 10    | 1,363     |
|                          | 500 - 1,000                     | 260                | 43      | 25  | --    | 328       |
|                          | 1,000+                          | 242                | --      | 15  | 3     | 260       |
|                          | All classes                     | 1,145              | 324     | 469 | 13    | 1,951     |
| All owners:              |                                 |                    |         |     |       |           |
|                          | 0 - 500                         | 688                | 305     | 448 | 10    | 1,451     |
|                          | 500 - 1,000                     | 277                | 46      | 26  | --    | 349       |
|                          | 1,000+                          | 248                | --      | 17  | 3     | 268       |
|                          | All classes                     | 1,213              | 351     | 491 | 13    | 2,068     |

<sup>1</sup>Less than 0.5 thousand acres.

Table 25--Net volume on State and privately owned woodland on less than 30 percent slope by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                                    | Site class  | Forest type    |         |        |       |                        |
|--|-------------|----------------|---------|--------|-------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak    | Other | All types <sup>1</sup> |
| <hr/>  |             |                |         |        |       |                        |
| <div>- - - - - Thousand cubic feet - - - - -</div> |             |                |         |        |       |                        |
| State:   | High site   | 28,363         | 5,672   | 2,630  | 244   | 36,909                 |
|  | Low site    | 1,964          | 316     | 2,903  | 2     | 5,185                  |
|  | All classes | 30,327         | 5,988   | 5,533  | 246   | 42,094                 |
| Private:   | High site   | 506,916        | 71,444  | 51,576 | 4,946 | 634,882                |
|  | Low site    | 105,491        | 2,994   | 27,609 | 112   | 136,206                |
|  | All classes | 612,407        | 74,438  | 79,185 | 5,058 | 771,088                |
| All owners:  | High site   | 535,279        | 77,116  | 54,206 | 5,190 | 671,791                |
|  | Low site    | 107,455        | 3,310   | 30,512 | 114   | 141,391                |
|  | All classes | 642,734        | 80,426  | 84,718 | 5,304 | 813,182                |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 26--Net volume on State and privately owned woodland on less than 30 percent slope by ownership class, volume class, and forest type, Colorado, 1983

| Ownership class                         | Volume class<br>(cu ft/acre) | Forest type    |         |        |       |                        |
|---|------------------------------|----------------|---------|--------|-------|------------------------|
|   |                              | Pinyon-juniper | Juniper | Oak    | Other | All types <sup>1</sup> |
| <hr/>                                   |                              |                |         |        |       |                        |
| - - - - - Thousand cubic feet - - - - - |                              |                |         |        |       |                        |
| State:                                  |                              |                |         |        |       |                        |
|   | 0 - 500                      | 11,215         | 4,377   | 2,380  | 2     | 17,974                 |
|   | 500 - 1,000                  | 10,973         | 1,611   | 327    | --    | 12,911                 |
|   | 1,000+                       | 8,139          | --      | 2,826  | 244   | 11,209                 |
|   | All classes                  | 30,327         | 5,988   | 5,533  | 246   | 42,094                 |
| Private:                                |                              |                |         |        |       |                        |
|   | 0 - 500                      | 156,334        | 50,792  | 43,283 | 112   | 250,521                |
|   | 500 - 1,000                  | 164,539        | 23,646  | 12,729 | --    | 200,914                |
|   | 1,000+                       | 291,534        | --      | 23,173 | 4,946 | 319,653                |
|   | All classes                  | 612,407        | 74,438  | 79,185 | 5,058 | 771,088                |
| All owners:                             |                              |                |         |        |       |                        |
|   | 0 - 500                      | 167,549        | 55,169  | 45,663 | 114   | 268,495                |
|   | 500 - 1,000                  | 175,512        | 25,257  | 13,056 | --    | 213,825                |
|   | 1,000+                       | 299,673        | --      | 25,999 | 5,190 | 330,862                |
|   | All classes                  | 642,734        | 80,426  | 84,718 | 5,304 | 813,182                |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 27--Net annual growth on State and privately owned woodland on less than 30 percent slope by ownership class, site class, and forest type, Colorado, 1982

| Ownership class                        | Site class  | Forest type    |         |       |                  | All types <sup>1</sup> |
|--|-------------|----------------|---------|-------|------------------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak   | Other            |                        |
| ----- <u>Thousand cubic feet</u> ----- |             |                |         |       |                  |                        |
| State:                                 | High site   | 381            | 111     | 106   | 1                | 599                    |
|  | Low site    | -104           | 3       | 48    | ( <sup>2</sup> ) | -53                    |
|  | All classes | 277            | 114     | 154   | 1                | 546                    |
| Private:                               | High site   | 6,084          | 1,320   | 2,939 | 22               | 10,365                 |
|  | Low site    | -29            | 25      | 587   | 7                | 590                    |
|  | All classes | 6,055          | 1,345   | 3,526 | 29               | 10,955                 |
| All owners:                            | High site   | 6,465          | 1,431   | 3,045 | 23               | 10,964                 |
|  | Low site    | -133           | 28      | 635   | 7                | 537                    |
|  | All classes | 6,332          | 1,459   | 3,680 | 30               | 11,501                 |

<sup>1</sup>Does not include timber species in woodland forest types.

<sup>2</sup>Less than 0.5 thousand acres.

Table 28--Net annual growth on State and privately owned woodland on less than 30 percent slope by ownership class, volume class, and forest type, Colorado, 1982

| Ownership class                            | Volume class<br>(cu ft/acre) | Forest type    |         |       |                  | All types <sup>1</sup> |
|--|------------------------------|----------------|---------|-------|------------------|------------------------|
|  |                              | Pinyon-juniper | Juniper | Oak   | Other            |                        |
| <hr/>                                      |                              |                |         |       |                  |                        |
| <div>----- Thousand cubic feet -----</div> |                              |                |         |       |                  |                        |
| State:                                     | 0 - 500                      | 209            | 94      | 123   | ( <sup>2</sup> ) | 426                    |
|  | 500 - 1,000                  | -21            | 20      | 33    | --               | 32                     |
|  | 1,000+                       | 89             | --      | -2    | 1                | 88                     |
|  | All classes                  | 277            | 114     | 154   | 1                | 546                    |
| <hr/>                                      |                              |                |         |       |                  |                        |
| Private:                                   | 0 - 500                      | 2,895          | 1,028   | 2,290 | 7                | 6,220                  |
|  | 500 - 1,000                  | 568            | 316     | 1,281 | --               | 2,165                  |
|  | 1,000+                       | 2,592          | --      | -44   | 22               | 2,570                  |
|  | All classes                  | 6,055          | 1,344   | 3,527 | 29               | 10,955                 |
| <hr/>                                      |                              |                |         |       |                  |                        |
| All owners:                                | 0 - 500                      | 3,104          | 1,122   | 2,413 | 7                | 6,646                  |
|  | 500 - 1,000                  | 547            | 336     | 1,314 | --               | 2,197                  |
|  | 1,000+                       | 2,681          | --      | -46   | 23               | 2,658                  |
|  | All classes                  | 6,332          | 1,458   | 3,681 | 30               | 11,501                 |

<sup>1</sup>Does not include timber species in woodland forest types.

<sup>2</sup>Less than 0.5 thousand acres.

Table 29--Net dead volume on State and privately owned woodland on less than 30 percent slope by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                            | Site class  | Forest type    |         |       |       | All types <sup>1</sup> |
|--|-------------|----------------|---------|-------|-------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak   | Other |                        |
| <hr/>                                      |             |                |         |       |       |                        |
| <div>----- Thousand cubic feet -----</div> |             |                |         |       |       |                        |
| State:                                     | High site   | 2,327          | 381     | 406   | 24    | 3,138                  |
|  | Low site    | 625            | 89      | 105   | 0     | 819                    |
|  | All classes | 2,952          | 470     | 511   | 24    | 3,957                  |
| Private:                                   | High site   | 56,687         | 4,791   | 7,782 | 495   | 69,755                 |
|  | Low site    | 20,250         | 791     | 1,163 | 0     | 22,204                 |
|  | All classes | 76,937         | 5,582   | 8,945 | 495   | 91,959                 |
| All owners:                                | High site   | 59,014         | 5,172   | 8,188 | 519   | 72,893                 |
|  | Low site    | 20,875         | 880     | 1,268 | 0     | 23,023                 |
|  | All classes | 79,889         | 6,052   | 9,456 | 519   | 95,916                 |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 30--Net dead volume on State and privately owned woodland on less than 30 percent slope by ownership class, volume class, and forest type, Colorado, 1983

| Ownership<br>class                     | Volume<br>class<br>(cu ft/acre) | Forest type        |         |       |       | All types <sup>1</sup> |
|--|---------------------------------|--------------------|---------|-------|-------|------------------------|
|  |                                 | Pinyon-<br>juniper | Juniper | Oak   | Other |                        |
| ----- <u>Thousand cubic feet</u> ----- |                                 |                    |         |       |       |                        |
| State:                                 |                                 |                    |         |       |       |                        |
|  | 0 - 500                         | 762                | 366     | 177   | --    | 1,305                  |
|  | 500 - 1,000                     | 1,657              | 104     | 51    | --    | 1,812                  |
|  | 1,000+                          | 533                | --      | 283   | 24    | 840                    |
|  | All classes                     | 2,952              | 470     | 511   | 24    | 3,957                  |
| Private:                               |                                 |                    |         |       |       |                        |
|  | 0 - 500                         | 13,421             | 4,117   | 4,385 | --    | 21,923                 |
|  | 500 - 1,000                     | 22,447             | 1,466   | 1,969 | --    | 25,882                 |
|  | 1,000+                          | 41,068             | --      | 2,591 | 495   | 44,154                 |
|  | All classes                     | 76,936             | 5,583   | 8,945 | 495   | 91,959                 |
| All owners:                            |                                 |                    |         |       |       |                        |
|  | 0 - 500                         | 14,183             | 4,483   | 4,562 | --    | 23,228                 |
|  | 500 - 1,000                     | 24,104             | 1,570   | 2,020 | --    | 27,694                 |
|  | 1,000+                          | 41,601             | --      | 2,874 | 519   | 44,994                 |
|  | All classes                     | 79,888             | 6,053   | 9,456 | 519   | 95,916                 |

<sup>1</sup>Does not include timber species in woodland forest types.



Table 31--Number of trees on State and privately owned woodland on less than 30 percent slope by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |             |             |             |              |               |               |               |               |               |               |              |               |               |       |    | All<br>classes |
|--------------------------------|--|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|-------|----|----------------|
|                                | 1.0-<br>2.9                            | 3.0-<br>4.9 | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |    |                |
|                                | ----- Thousand trees -----             |             |             |             |              |               |               |               |               |               |               |              |               |               |       |    |                |
| State:                         |  |             |             |             |              |               |               |               |               |               |               |              |               |               |       |    |                |
| Pinyon                         | 2,582                                  | 1,597       | 1,349       | 1,205       | 592          | 316           | 201           | 67            | 7             | 15            | 7             | --           | --            | 9             | --    | -- | 7,947          |
| Juniper                        | 1,527                                  | 1,043       | 1,093       | 1,170       | 726          | 596           | 447           | 416           | 251           | 111           | 130           | 42           | 119           | 63            | 50    | -- | 7,784          |
| Oak                            | 28,523                                 | 7,511       | 779         | 128         | 94           | 156           | 83            | --            | --            | --            | --            | --           | --            | --            | --    | -- | 37,274         |
| Other                          | 92                                     | 58          | 28          | 16          | 14           | 9             | --            | --            | --            | --            | --            | --           | --            | --            | 3     | -- | 220            |
| All species <sup>1</sup>       | 32,724                                 | 10,209      | 3,249       | 2,519       | 1,426        | 1,077         | 731           | 483           | 258           | 126           | 137           | 421          | 119           | 72            | 53    | -- | 53,225         |
| Private:                       |  |             |             |             |              |               |               |               |               |               |               |              |               |               |       |    |                |
| Pinyon                         | 46,868                                 | 34,080      | 28,384      | 19,470      | 10,066       | 5,463         | 3,896         | 1,662         | 386           | 203           | 219           | --           | --            | 82            | --    | -- | 150,779        |
| Juniper                        | 27,275                                 | 18,114      | 17,104      | 16,256      | 13,033       | 11,746        | 8,422         | 9,013         | 4,604         | 3,255         | 2,336         | 1,170        | 1,573         | 829           | 998   | -- | 135,728        |
| Oak                            | 578,196                                | 161,057     | 13,709      | 2,448       | 1,051        | 1,221         | 635           | --            | --            | --            | --            | --           | --            | --            | --    | -- | 758,317        |
| Other                          | 2,095                                  | 1,960       | 912         | 481         | 570          | 380           | --            | --            | --            | --            | --            | --           | --            | --            | 69    | -- | 6,467          |
| All species <sup>1</sup>       | 654,434                                | 215,211     | 60,109      | 38,655      | 24,720       | 18,810        | 12,953        | 10,675        | 4,990         | 3,458         | 2,555         | 1,170        | 1,573         | 911           | 1,067 | -- | 1,051,291      |
| All owners:                    |  |             |             |             |              |               |               |               |               |               |               |              |               |               |       |    |                |
| Pinyon                         | 49,450                                 | 35,677      | 29,733      | 20,675      | 10,658       | 5,779         | 4,097         | 1,729         | 393           | 218           | 226           | --           | --            | 91            | --    | -- | 158,726        |
| Juniper                        | 28,802                                 | 19,157      | 18,197      | 17,426      | 13,759       | 12,342        | 8,869         | 9,429         | 4,855         | 3,366         | 2,466         | 1,212        | 1,692         | 892           | 1,048 | -- | 143,512        |
| Oak                            | 606,719                                | 168,568     | 14,488      | 2,576       | 1,145        | 1,377         | 718           | --            | --            | --            | --            | --           | --            | --            | --    | -- | 795,591        |
| Other                          | 2,187                                  | 2,018       | 940         | 497         | 584          | 389           | --            | --            | --            | --            | --            | --           | --            | --            | 72    | -- | 6,687          |
| All species <sup>1</sup>       | 687,158                                | 225,420     | 63,358      | 41,174      | 26,146       | 19,887        | 13,684        | 11,158        | 5,248         | 3,584         | 2,692         | 1,212        | 1,692         | 983           | 1,120 | -- | 1,104,516      |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 32--Net volume on State and privately owned woodland on less than 30 percent slope by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |        |    | All<br>classes |
|--------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|----|----------------|
|                                | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+  |    |                |
| Thousand cubic feet            |  |             |             |              |               |               |               |               |               |               |               |               |               |        |    |                |
| State:                         |  |             |             |              |               |               |               |               |               |               |               |               |               |        |    |                |
| Pinyon                         | 447                                    | 1,450       | 2,797       | 2,464        | 2,083         | 2,057         | 971           | 60            | 400           | 112           | --            | --            | 496           | --     | -- | 13,337         |
| Juniper                        | 199                                    | 604         | 1,466       | 1,567        | 2,032         | 1,881         | 3,208         | 2,007         | 1,066         | 1,793         | 629           | 3,960         | 1,120         | 1,313  | -- | 22,845         |
| Oak                            | 2,069                                  | 681         | 276         | 536          | 1,260         | 810           | --            | --            | --            | --            | --            | --            | --            | --     | -- | 5,632          |
| Other                          | 9                                      | 14          | 13          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 244    | -- | 280            |
| All species <sup>1</sup>       | 2,724                                  | 2,749       | 4,552       | 4,567        | 5,375         | 4,748         | 4,179         | 2,067         | 1,466         | 1,905         | 629           | 3,960         | 1,616         | 1,557  | -- | 42,094         |
| Private:                       |  |             |             |              |               |               |               |               |               |               |               |               |               |        |    |                |
| Pinyon                         | 8,894                                  | 28,752      | 43,425      | 40,656       | 36,085        | 42,017        | 23,484        | 7,056         | 4,710         | 4,892         | --            | --            | 4,733         | --     | -- | 244,704        |
| Juniper                        | 3,752                                  | 10,117      | 20,465      | 29,311       | 43,013        | 39,345        | 73,236        | 38,083        | 36,302        | 36,476        | 19,331        | 42,789        | 16,510        | 28,565 | -- | 437,295        |
| Oak                            | 43,976                                 | 12,315      | 5,133       | 5,532        | 9,884         | 6,174         | --            | --            | --            | --            | --            | --            | --            | --     | -- | 83,014         |
| Other                          | 321                                    | 415         | 393         | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 4,946  | -- | 6,075          |
| All species <sup>1</sup>       | 56,943                                 | 51,599      | 69,416      | 75,499       | 88,982        | 87,536        | 96,720        | 45,139        | 41,012        | 41,368        | 19,331        | 42,789        | 21,243        | 33,511 | -- | 771,088        |
| All owners:                    |  |             |             |              |               |               |               |               |               |               |               |               |               |        |    |                |
| Pinyon                         | 9,341                                  | 30,202      | 46,222      | 43,120       | 38,168        | 44,074        | 24,455        | 7,116         | 5,110         | 5,004         | --            | --            | 5,229         | --     | -- | 258,041        |
| Juniper                        | 3,951                                  | 10,721      | 21,931      | 30,878       | 45,045        | 41,226        | 76,444        | 40,090        | 37,368        | 38,269        | 19,960        | 46,749        | 17,630        | 29,878 | -- | 460,140        |
| Oak                            | 46,045                                 | 12,996      | 5,409       | 6,068        | 11,144        | 6,984         | --            | --            | --            | --            | --            | --            | --            | --     | -- | 88,646         |
| Other                          | 330                                    | 429         | 406         | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 5,190  | -- | 6,355          |
| All species <sup>1</sup>       | 59,667                                 | 54,348      | 73,968      | 80,066       | 94,357        | 92,284        | 100,899       | 47,206        | 42,478        | 43,273        | 19,960        | 46,749        | 22,859        | 35,068 | -- | 813,182        |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 33--Net annual growth on State and privately owned woodland on less than 30 percent slope by ownership class, species, and diameter class, Colorado, 1982

| Ownership class<br>and species  | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |       | All<br>classes |
|---------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----------------|
|                                 | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |                |
| ----- Thousand cubic feet ----- |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| State:                          |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                          | 28                                     | 43          | 65          | 45           | 32            | 28            | 10            | (1)           | 3             | -114          | --            | --            | 3             | --    | 143            |
| Juniper                         | 9                                      | 21          | 41          | 30           | 31            | 20            | 32            | 16            | 6             | 10            | 2             | 16            | 3             | 3     | 240            |
| Oak                             | 135                                    | -5          | 6           | 8            | 14            | 4             | --            | --            | --            | --            | --            | --            | --            | --    | 162            |
| Other                           | -1                                     | --          | 1           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 1     | 1              |
| All species <sup>2</sup>        | 171                                    | 59          | 113         | 83           | 77            | 52            | 42            | 16            | 9             | -104          | 2             | 16            | 6             | 4     | 546            |
| Private:                        |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                          | 501                                    | 744         | 942         | 616          | 517           | 528           | 232           | 67            | 38            | -1,056        | --            | --            | 27            | --    | 3,156          |
| Juniper                         | 229                                    | 323         | 534         | 495          | 517           | 336           | 611           | 263           | 218           | 230           | 77            | 167           | 41            | 57    | 4,098          |
| Oak                             | 3,335                                  | 55          | 84          | 81           | 109           | 30            | --            | --            | --            | --            | --            | --            | --            | --    | 3,694          |
| Other                           | -22                                    | -2          | 9           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 22    | 7              |
| All species <sup>2</sup>        | 4,043                                  | 1,120       | 1,569       | 1,192        | 1,143         | 894           | 843           | 330           | 256           | -826          | 77            | 167           | 68            | 79    | 10,955         |
| All owners:                     |  |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                          | 529                                    | 787         | 1,007       | 661          | 549           | 556           | 242           | 67            | 41            | -1,170        | --            | --            | 30            | --    | 3,299          |
| Juniper                         | 238                                    | 344         | 575         | 525          | 548           | 356           | 643           | 279           | 224           | 240           | 79            | 183           | 44            | 60    | 4,338          |
| Oak                             | 3,470                                  | 50          | 90          | 89           | 123           | 34            | --            | --            | --            | --            | --            | --            | --            | --    | 3,856          |
| Other                           | -23                                    | -2          | 10          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 23    | 8              |
| All species <sup>2</sup>        | 4,214                                  | 1,179       | 1,682       | 1,275        | 1,220         | 946           | 885           | 346           | 265           | -930          | 79            | 183           | 74            | 83    | 11,501         |

<sup>1</sup>Less than 0.5 thousand acres.  
<sup>2</sup>Does not include timber species in woodland forest types.

Table 34--Net dead volume on State and privately owned woodland on less than 30 percent slope by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species  | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |       |    | All<br>classes |
|---------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----|----------------|
|                                 | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |    |                |
| ----- Thousand cubic feet ----- |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| State:                          |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                          | 4                                      | 95          | 177         | 295          | 229           | 236           | 119           | 5             | --            | 576           | --            | --            | 295           | --    | -- | 2,031          |
| Juniper                         | 9                                      | 24          | 116         | 152          | 140           | 158           | 200           | 139           | 26            | 128           | 62            | 8             | 78            | 133   | -- | 1,373          |
| Oak                             | 214                                    | 187         | 85          | 25           | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 511            |
| Other                           | 9                                      | 7           | 2           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 24    | -- | 42             |
| All species <sup>1</sup>        | 236                                    | 313         | 380         | 472          | 369           | 394           | 319           | 144           | 26            | 704           | 62            | 8             | 373           | 157   | -- | 3,957          |
| Private:                        |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                          | 402                                    | 2,327       | 2,418       | 7,708        | 3,462         | 3,032         | 1,263         | 104           | --            | 5,515         | --            | --            | 2,298         | --    | -- | 28,529         |
| Juniper                         | 231                                    | 735         | 2,677       | 3,534        | 8,406         | 3,781         | 6,220         | 7,886         | 4,224         | 5,777         | 4,223         | 399           | 1,438         | 4,120 | -- | 53,651         |
| Oak                             | 4,309                                  | 3,370       | 805         | 282          | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 8,766          |
| Other                           | 262                                    | 200         | 56          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 495   | -- | 1,013          |
| All species <sup>1</sup>        | 5,204                                  | 6,632       | 5,956       | 11,524       | 11,868        | 6,813         | 7,483         | 7,990         | 4,224         | 11,292        | 4,223         | 399           | 3,736         | 4,615 | -- | 91,959         |
| All owners:                     |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                          | 406                                    | 2,422       | 2,595       | 8,003        | 3,691         | 3,268         | 1,382         | 109           | --            | 6,091         | --            | --            | 2,593         | --    | -- | 30,560         |
| Juniper                         | 240                                    | 759         | 2,793       | 3,686        | 8,546         | 3,939         | 6,420         | 8,025         | 4,250         | 5,905         | 4,285         | 407           | 1,516         | 4,253 | -- | 55,024         |
| Oak                             | 4,523                                  | 3,557       | 890         | 307          | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 9,277          |
| Other                           | 271                                    | 207         | 58          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 519   | -- | 1,055          |
| All species <sup>1</sup>        | 5,440                                  | 6,945       | 6,336       | 11,996       | 12,237        | 7,207         | 7,802         | 8,134         | 4,250         | 11,996        | 4,285         | 407           | 4,109         | 4,772 | -- | 95,916         |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 35--Number of pinyon Christmas trees on State and privately owned woodland on less than 30 percent slope by ownership class, height class, and grade class, Colorado, 1983

| Ownership class            | Height class (feet) | Grade class |          |         | All grades |
|----------------------------|---------------------|-------------|----------|---------|------------|
|                            |                     | Premium     | Standard | Utility |            |
| ----- Thousand trees ----- |                     |             |          |         |            |
| State:                     |                     |             |          |         |            |
|                            | 0 - 5               | --          | 220      | 889     | 1,109      |
|                            | 6 - 10              | 18          | 500      | 554     | 1,072      |
|                            | 11 - 12             | 6           | 37       | 155     | 198        |
|                            | All classes         | 24          | 757      | 1,598   | 2,379      |
| Private:                   |                     |             |          |         |            |
|                            | 0 - 5               | 89          | 3,421    | 13,875  | 17,385     |
|                            | 6 - 10              | 962         | 8,122    | 11,202  | 20,286     |
|                            | 11 - 12             | 351         | 692      | 2,818   | 3,861      |
|                            | All classes         | 1,402       | 12,235   | 27,895  | 41,532     |
| All owners:                |                     |             |          |         |            |
|                            | 0 - 5               | 89          | 3,641    | 14,764  | 18,494     |
|                            | 6 - 10              | 980         | 8,622    | 11,756  | 21,358     |
|                            | 11 - 12             | 357         | 729      | 2,973   | 4,059      |
|                            | All classes         | 1,426       | 12,992   | 29,493  | 43,911     |

Table 36--Number of fenceposts on State and privately owned woodland on less than 30 percent slope by ownership class, type of post, and species, Colorado, 1983

| Ownership class                                | Type of post | Species |         |       | All species |
|--|--------------|---------|---------|-------|-------------|
|  |              | Pinyon  | Juniper | Oak   |             |
| - - - - - <u>Thousand fenceposts</u> - - - - - |              |         |         |       |             |
| State:   | Line         | 1,514   | 3,848   | 117   | 5,479       |
|  | Corner       | 786     | 1,918   | 14    | 2,718       |
|  | All posts    | 2,300   | 5,766   | 131   | 8,197       |
| Private:                                       | Line         | 16,126  | 52,899  | 3,833 | 72,858      |
|  | Corner       | 8,501   | 31,475  | 272   | 40,248      |
|  | All posts    | 24,627  | 84,374  | 4,105 | 113,106     |
| All owners:                                    | Line         | 17,640  | 56,747  | 3,950 | 78,337      |
|  | Corner       | 9,287   | 33,393  | 286   | 42,966      |
|  | All posts    | 26,927  | 90,140  | 4,236 | 121,303     |

Table 37--Area of State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                       | Site class  | Forest type    |         |     |                  |           |
|---------------------------------------|-------------|----------------|---------|-----|------------------|-----------|
|                                       |             | Pinyon-juniper | Juniper | Oak | Other            | All types |
| <hr/>                                 |             |                |         |     |                  |           |
| <div>----- Thousand acres -----</div> |             |                |         |     |                  |           |
| State:                                | High site   | 64             | 21      | 12  | ( <sup>1</sup> ) | 97        |
|                                       | Low site    | 4              | 4       | 8   | ( <sup>1</sup> ) | 16        |
|                                       | All classes | 68             | 25      | 20  | ( <sup>1</sup> ) | 113       |
| Private:                              | High site   | 973            | 272     | 289 | 3                | 1,537     |
|                                       | Low site    | 108            | 37      | 149 | 10               | 304       |
|                                       | All classes | 1,081          | 309     | 438 | 13               | 1,841     |
| All owners:                           | High site   | 1,037          | 293     | 301 | 3                | 1,634     |
|                                       | Low site    | 112            | 41      | 157 | 10               | 320       |
|                                       | All classes | 1,149          | 334     | 458 | 13               | 1,954     |

<sup>1</sup>Less than 0.5 thousand acres.

Table 38--Area of State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, volume class, and forest type, Colorado, 1983

| Ownership class                   | Volume class<br>(cu ft/acre) | Forest type    |         |     |                  | All types |
|-----------------------------------|------------------------------|----------------|---------|-----|------------------|-----------|
|                                   |                              | Pinyon-juniper | Juniper | Oak | Other            |           |
| <hr/>                             |                              |                |         |     |                  |           |
| ----- <u>Thousand acres</u> ----- |                              |                |         |     |                  |           |
| State:                            |                              |                |         |     |                  |           |
|                                   | 0 - 500                      | 45             | 22      | 17  | ( <sup>1</sup> ) | 84        |
|                                   | 500 - 1,000                  | 17             | 3       | 1   | --               | 21        |
|                                   | 1,000+                       | 6              | --      | 2   | ( <sup>1</sup> ) | 8         |
|                                   | All classes                  | 68             | 25      | 20  | ( <sup>1</sup> ) | 113       |
| Private:                          |                              |                |         |     |                  |           |
|                                   | 0 - 500                      | 623            | 266     | 398 | 10               | 1,297     |
|                                   | 500 - 1,000                  | 248            | 43      | 25  | --               | 316       |
|                                   | 1,000+                       | 210            | --      | 15  | 3                | 228       |
|                                   | All classes                  | 1,081          | 309     | 438 | 13               | 1,841     |
| All owners:                       |                              |                |         |     |                  |           |
|                                   | 0 - 500                      | 668            | 288     | 415 | 10               | 1,381     |
|                                   | 500 - 1,000                  | 265            | 46      | 26  | --               | 337       |
|                                   | 1,000+                       | 216            | --      | 17  | 3                | 236       |
|                                   | All classes                  | 1,149          | 334     | 458 | 13               | 1,954     |

<sup>1</sup>Less than 0.5 thousand acres.

Table 39--Net volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                            | Site class  | Forest type    |         |        |       | All types <sup>1</sup> |
|--|-------------|----------------|---------|--------|-------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak    | Other |                        |
| <hr/>                                      |             |                |         |        |       |                        |
| <div>----- Thousand cubic feet -----</div> |             |                |         |        |       |                        |
| State:                                     |             |                |         |        |       |                        |
|  | High site   | 28,363         | 5,672   | 2,332  | 244   | 36,611                 |
|  | Low site    | 1,964          | 58      | 2,845  | 3     | 4,870                  |
|  | All classes | 30,327         | 5,730   | 5,177  | 247   | 41,481                 |
| Private:                                   |             |                |         |        |       |                        |
|  | High site   | 492,586        | 71,444  | 48,745 | 4,946 | 617,721                |
|  | Low site    | 80,801         | 546     | 27,153 | 112   | 108,612                |
|  | All classes | 573,387        | 71,990  | 75,898 | 5,058 | 726,333                |
| All owners:                                |             |                |         |        |       |                        |
|  | High site   | 520,949        | 77,116  | 51,077 | 5,190 | 654,332                |
|  | Low site    | 82,765         | 604     | 29,998 | 115   | 113,482                |
|  | All classes | 603,714        | 77,720  | 81,075 | 5,305 | 767,814                |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 40--Net volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, volume class, and forest type, Colorado 1983

| Ownership class                            | Volume class<br>(cu ft/acre) | Forest type    |         |        |       | All types <sup>1</sup> |
|--|------------------------------|----------------|---------|--------|-------|------------------------|
|  |                              | Pinyon-juniper | Juniper | Oak    | Other |                        |
| <hr/>                                      |                              |                |         |        |       |                        |
| <div>----- Thousand cubic feet -----</div> |                              |                |         |        |       |                        |
| State:                                     |                              |                |         |        |       |                        |
|  | 0 - 500                      | 11,215         | 4,119   | 2,023  | 3     | 17,360                 |
|  | 500 - 1,000                  | 10,973         | 1,611   | 328    | --    | 12,912                 |
|  | 1,000+                       | 8,139          | --      | 2,826  | 244   | 11,209                 |
|  | All classes                  | 30,327         | 5,730   | 5,177  | 247   | 41,481                 |
| Private:                                   |                              |                |         |        |       |                        |
|  | 0 - 500                      | 150,347        | 48,343  | 39,996 | 112   | 238,798                |
|  | 500 - 1,000                  | 159,173        | 23,647  | 12,729 | --    | 195,549                |
|  | 1,000+                       | 263,867        | --      | 23,173 | 4,946 | 291,986                |
|  | All classes                  | 573,387        | 71,990  | 75,898 | 5,058 | 726,333                |
| All owners:                                |                              |                |         |        |       |                        |
|  | 0 - 500                      | 161,562        | 52,462  | 42,019 | 115   | 256,158                |
|  | 500 - 1,000                  | 170,146        | 25,258  | 13,057 | --    | 208,461                |
|  | 1,000+                       | 272,006        | --      | 25,999 | 5,190 | 303,195                |
|  | All classes                  | 603,714        | 77,720  | 81,075 | 5,305 | 767,814                |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 41--Net annual growth on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, site class, and forest type, Colorado, 1982

| Ownership class                 | Site class  | Forest type    |         |       |                  | All types <sup>1</sup> |
|---------------------------------|-------------|----------------|---------|-------|------------------|------------------------|
|                                 |             | Pinyon-juniper | Juniper | Oak   | Other            |                        |
| ----- Thousand cubic feet ----- |             |                |         |       |                  |                        |
| State:                          | High site   | 380            | 112     | 92    | 1                | 585                    |
|                                 | Low site    | -103           | 1       | 46    | ( <sup>2</sup> ) | -56                    |
|                                 | All classes | 277            | 113     | 138   | 1                | 529                    |
| Private:                        | High site   | 6,018          | 1,320   | 2,721 | 22               | 10,081                 |
|                                 | Low site    | -346           | 11      | 571   | 7                | 243                    |
|                                 | All classes | 5,672          | 1,331   | 3,292 | 29               | 10,324                 |
| All owners:                     | High site   | 6,398          | 1,432   | 2,813 | 23               | 10,666                 |
|                                 | Low site    | -449           | 12      | 617   | 7                | 187                    |
|                                 | All classes | 5,949          | 1,444   | 3,430 | 30               | 10,853                 |

<sup>1</sup>Does not include timber species in woodland forest types.

<sup>2</sup>Less than 0.5 thousand acres.



Table 42--Net annual growth on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, volume class, and forest type, Colorado, 1982

| Ownership<br>class                     | Volume<br>class<br>(cu ft/acre) | Forest type        |         |       |                  |                        |
|--|---------------------------------|--------------------|---------|-------|------------------|------------------------|
|  |                                 | Pinyon-<br>juniper | Juniper | Oak   | Other            | All types <sup>1</sup> |
| ----- <u>Thousand cubic feet</u> ----- |                                 |                    |         |       |                  |                        |
| State:                                 |                                 |                    |         |       |                  |                        |
|  | 0 - 500                         | 209                | 92      | 107   | ( <sup>2</sup> ) | 408                    |
|  | 500 - 1,000                     | -21                | 21      | 33    | --               | 33                     |
|  | 1,000+                          | 89                 | --      | -2    | 1                | 88                     |
|  | All classes                     | 277                | 113     | 138   | 1                | 529                    |
| Private:                               |                                 |                    |         |       |                  |                        |
|  | 0 - 500                         | 2,741              | 1,014   | 2,056 | 7                | 5,818                  |
|  | 500 - 1,000                     | 529                | 316     | 1,281 | --               | 2,126                  |
|  | 1,000+                          | 2,402              | --      | -44   | 22               | 2,380                  |
|  | All classes                     | 5,672              | 1,330   | 3,293 | 29               | 10,324                 |
| All owners:                            |                                 |                    |         |       |                  |                        |
|  | 0 - 500                         | 2,950              | 1,106   | 2,163 | 7                | 6,226                  |
|  | 500 - 1,000                     | 508                | 337     | 1,314 | --               | 2,159                  |
|  | 1,000+                          | 2,491              | --      | -46   | 23               | 2,468                  |
|  | All classes                     | 5,949              | 1,443   | 3,431 | 30               | 10,853                 |

<sup>1</sup>Does not include timber species in woodland forest types.

<sup>2</sup>Less than 0.5 thousand acres.

Table 43--Net dead volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, site class, and forest type, Colorado, 1983

| Ownership class                            | Site class  | Forest type    |         |       |       |                        |
|--|-------------|----------------|---------|-------|-------|------------------------|
|  |             | Pinyon-juniper | Juniper | Oak   | Other | All types <sup>1</sup> |
| <hr/>                                      |             |                |         |       |       |                        |
| <div>----- Thousand cubic feet -----</div> |             |                |         |       |       |                        |
| State:                                     |             |                |         |       |       |                        |
|  | High site   | 2,327          | 381     | 404   | 24    | 3,136                  |
|  | Low site    | 625            | 62      | 103   | --    | 790                    |
|  | All classes | 2,952          | 443     | 507   | 24    | 3,926                  |
| Private:                                   |             |                |         |       |       |                        |
|  | High site   | 55,058         | 4,791   | 7,760 | 495   | 68,104                 |
|  | Low site    | 14,174         | 577     | 1,148 | --    | 15,899                 |
|  | All classes | 69,232         | 5,368   | 8,908 | 495   | 84,003                 |
| All owners:                                |             |                |         |       |       |                        |
|  | High site   | 57,385         | 5,172   | 8,164 | 519   | 71,240                 |
|  | Low site    | 14,799         | 639     | 1,251 | --    | 16,689                 |
|  | All classes | 72,184         | 5,811   | 9,415 | 519   | 87,929                 |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 44--Net dead volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, volume class, and forest type, Colorado, 1983

| Ownership class                 | Volume class<br>(cu ft/acre) | Forest type    |         |       |       |                        |
|---------------------------------|------------------------------|----------------|---------|-------|-------|------------------------|
|                                 |                              | Pinyon-juniper | Juniper | Oak   | Other | All types <sup>1</sup> |
| ----- Thousand cubic feet ----- |                              |                |         |       |       |                        |
| State:                          | 0 - 500                      | 762            | 339     | 173   | --    | 1,274                  |
|                                 | 500 - 1,000                  | 1,657          | 104     | 51    | --    | 1,812                  |
|                                 | 1,000+                       | 533            | --      | 283   | 24    | 840                    |
|                                 | All classes                  | 2,952          | 443     | 507   | 24    | 3,926                  |
| Private:                        | 0 - 500                      | 12,934         | 3,902   | 4,348 | --    | 21,184                 |
|                                 | 500 - 1,000                  | 21,713         | 1,466   | 1,969 | --    | 25,148                 |
|                                 | 1,000+                       | 34,585         | --      | 2,591 | 495   | 37,671                 |
|                                 | All classes                  | 69,232         | 5,368   | 8,908 | 495   | 84,003                 |
| All owners:                     | 0 - 500                      | 13,696         | 4,241   | 4,521 | --    | 22,458                 |
|                                 | 500 - 1,000                  | 23,370         | 1,570   | 2,020 | --    | 26,960                 |
|                                 | 1,000+                       | 35,118         | --      | 2,874 | 519   | 38,511                 |
|                                 | All classes                  | 72,184         | 5,811   | 9,415 | 519   | 87,929                 |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 45--Number of trees on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |             |             |             |              |               |               |               |               |               |               |               |               |               |       | All<br>classes |
|--------------------------------|--|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----------------|
|                                | 1.0-<br>2.9                            | 3.0-<br>4.9 | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |                |
| ----- Thousand trees -----     |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| State:                         |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                         | 2,582                                  | 1,597       | 1,349       | 1,205       | 592          | 316           | 201           | 67            | 7             | 15            | 7             | 0             | 0             | 9             | --    | 7,947          |
| Juniper                        | 1,527                                  | 1,043       | 1,093       | 1,159       | 726          | 576           | 447           | 416           | 220           | 111           | 124           | 42            | 119           | 63            | 50    | 7,716          |
| Oak                            | 26,355                                 | 6,695       | 707         | 128         | 79           | 156           | 83            | --            | --            | --            | --            | --            | --            | --            | --    | 34,203         |
| Other                          | 92                                     | 58          | 28          | 16          | 14           | 9             | --            | --            | --            | --            | --            | --            | --            | --            | 3     | 220            |
| All species <sup>1</sup>       | 30,556                                 | 9,393       | 3,177       | 2,508       | 1,411        | 1,057         | 731           | 483           | 227           | 126           | 131           | 42            | 119           | 72            | 53    | 50,086         |
| Private:                       |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                         | 45,830                                 | 33,198      | 27,498      | 18,992      | 10,066       | 5,463         | 3,896         | 1,503         | 386           | 203           | 219           | 0             | 0             | 82            | --    | 147,336        |
| Juniper                        | 22,010                                 | 17,116      | 15,698      | 16,001      | 12,043       | 10,751        | 7,358         | 8,853         | 4,363         | 2,870         | 1,997         | 1,057         | 1,254         | 829           | 998   | 123,198        |
| Oak                            | 561,184                                | 150,782     | 12,934      | 2,448       | 938          | 1,221         | 635           | --            | --            | --            | --            | --            | --            | --            | --    | 730,142        |
| Other                          | 2,095                                  | 1,960       | 912         | 481         | 570          | 380           | --            | --            | --            | --            | --            | --            | --            | --            | 69    | 6,467          |
| All species <sup>1</sup>       | 631,119                                | 203,056     | 57,042      | 37,922      | 23,617       | 17,815        | 11,889        | 10,356        | 4,749         | 3,073         | 2,216         | 1,057         | 1,254         | 911           | 1,067 | 1,007,143      |
| All owners:                    |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |                |
| Pinyon                         | 48,412                                 | 34,795      | 28,847      | 20,197      | 10,658       | 5,779         | 4,097         | 1,570         | 393           | 218           | 226           | --            | --            | 91            | --    | 155,283        |
| Juniper                        | 23,537                                 | 18,159      | 16,791      | 17,160      | 12,769       | 11,327        | 7,805         | 9,269         | 4,583         | 2,981         | 2,121         | 1,099         | 1,373         | 892           | 1,048 | 130,914        |
| Oak                            | 587,539                                | 157,477     | 13,641      | 2,576       | 1,017        | 1,377         | 718           | --            | --            | --            | --            | --            | --            | --            | --    | 764,345        |
| Other                          | 2,187                                  | 2,018       | 940         | 497         | 584          | 389           | --            | --            | --            | --            | --            | --            | --            | --            | 72    | 6,687          |
| All species <sup>1</sup>       | 661,675                                | 212,449     | 60,219      | 40,430      | 25,028       | 18,872        | 12,620        | 10,839        | 4,976         | 3,199         | 2,347         | 1,099         | 1,373         | 983           | 1,120 | 1,057,229      |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 46--Net volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |        |        |        |        |        |        |        |        |        |        |        |        |        | 29.0+   | 27.0-<br>28.9 | 25.0-<br>26.9 | 23.0-<br>24.9 | 21.0-<br>22.9 | 19.0-<br>20.9 | 17.0-<br>18.9 | 15.0-<br>16.9 | 13.0-<br>14.9 | 11.0-<br>12.9 | 9.0-<br>10.9 | 7.0-<br>8.9 | 5.0-<br>6.9 | 3.0-<br>4.9 | All<br>classes |
|--------------------------------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|-------------|-------------|-------------|----------------|
|                                | Thousand cubic feet                    |        |        |        |        |        |        |        |        |        |        |        |        |        |         |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| State:                         |  |        |        |        |        |        |        |        |        |        |        |        |        |        |         |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Pinyon                         | 447                                    | 1,450  | 2,797  | 2,464  | 2,083  | 2,057  | 971    | 60     | 400    | 112    | --     | --     | 496    | --     | 13,337  | --            |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Juniper                        | 199                                    | 604    | 1,460  | 1,567  | 1,995  | 1,881  | 3,208  | 1,865  | 1,066  | 1,721  | 629    | 3,960  | 1,120  | 1,313  | 22,588  |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Oak                            | 1,821                                  | 640    | 276    | 469    | 1,260  | 810    | --     | --     | --     | --     | --     | --     | --     | --     | 5,276   |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Other                          | 9                                      | 14     | 13     | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 244    | 280     |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| All species <sup>1</sup>       | 2,476                                  | 2,708  | 4,546  | 4,500  | 5,338  | 4,748  | 4,179  | 1,925  | 1,466  | 1,833  | 629    | 3,960  | 1,616  | 1,557  | 41,481  |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Private:                       |  |        |        |        |        |        |        |        |        |        |        |        |        |        |         |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Pinyon                         | 8,676                                  | 28,127 | 42,338 | 40,656 | 36,085 | 42,017 | 20,325 | 7,056  | 4,710  | 4,892  | --     | --     | 4,733  | --     | 239,615 |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Juniper                        | 3,452                                  | 8,907  | 20,229 | 26,930 | 39,478 | 33,089 | 72,840 | 36,979 | 31,867 | 27,843 | 16,129 | 38,605 | 16,510 | 28,565 | 401,423 |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Oak                            | 41,205                                 | 11,820 | 5,133  | 5,004  | 9,884  | 6,174  | --     | --     | --     | --     | --     | --     | --     | --     | 79,220  |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Other                          | 321                                    | 415    | 393    | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 4,946  | 6,075   |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| All species <sup>1</sup>       | 53,654                                 | 49,269 | 68,093 | 72,590 | 85,447 | 81,280 | 93,165 | 44,035 | 36,577 | 32,735 | 16,129 | 38,605 | 21,243 | 33,511 | 726,333 |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| All owners:                    |  |        |        |        |        |        |        |        |        |        |        |        |        |        |         |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Pinyon                         | 9,123                                  | 29,577 | 45,135 | 43,120 | 38,168 | 44,074 | 21,296 | 7,116  | 5,110  | 5,004  | --     | --     | 5,229  | --     | 252,952 |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Juniper                        | 3,651                                  | 9,511  | 21,689 | 28,497 | 41,473 | 34,970 | 76,048 | 38,844 | 32,933 | 29,564 | 16,758 | 42,565 | 17,630 | 29,878 | 424,011 |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Oak                            | 43,026                                 | 12,460 | 5,409  | 5,473  | 11,144 | 6,984  | --     | --     | --     | --     | --     | --     | --     | --     | 84,496  |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| Other                          | 330                                    | 429    | 406    | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     | 5,190  | 6,355   |               |               |               |               |               |               |               |               |               |              |             |             |             |                |
| All species <sup>1</sup>       | 56,130                                 | 51,977 | 72,639 | 77,090 | 90,785 | 86,028 | 97,344 | 45,960 | 38,043 | 34,568 | 16,758 | 42,565 | 22,859 | 35,068 | 767,814 |               |               |               |               |               |               |               |               |               |              |             |             |             |                |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 45--Number of trees on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species | Diameter class (inches at root collar) |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    | All<br>classes |
|--------------------------------|--|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----|----------------|
|                                | 1.0-<br>2.9                            | 3.0-<br>4.9 | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |    |                |
| ----- Thousand trees -----     |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| State:                         |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 2,582                                  | 1,597       | 1,349       | 1,205       | 592          | 316           | 201           | 67            | 7             | 15            | 7             | 0             | 0             | 0             | 9     | -- | 7,947          |
| Juniper                        | 1,527                                  | 1,043       | 1,093       | 1,159       | 726          | 576           | 447           | 416           | 220           | 111           | 124           | 42            | 119           | 63            | 50    | -- | 7,716          |
| Oak                            | 26,355                                 | 6,695       | 707         | 128         | 79           | 156           | 83            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 34,203         |
| Other                          | 92                                     | 58          | 28          | 16          | 14           | 9             | --            | --            | --            | --            | --            | --            | --            | --            | 3     | -- | 220            |
| All species <sup>1</sup>       | 30,556                                 | 9,393       | 3,177       | 2,508       | 1,411        | 1,057         | 731           | 483           | 227           | 126           | 131           | 42            | 119           | 72            | 53    | -- | 50,086         |
| Private:                       |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 45,830                                 | 33,198      | 27,498      | 18,992      | 10,066       | 5,463         | 3,896         | 1,503         | 386           | 203           | 219           | 0             | 0             | 0             | 82    | -- | 147,336        |
| Juniper                        | 22,010                                 | 17,116      | 15,698      | 16,001      | 12,043       | 10,751        | 7,358         | 8,853         | 4,363         | 2,870         | 1,997         | 1,057         | 1,254         | 829           | 998   | -- | 123,198        |
| Oak                            | 561,184                                | 150,782     | 12,934      | 2,448       | 938          | 1,221         | 635           | --            | --            | --            | --            | --            | --            | --            | --    | -- | 730,142        |
| Other                          | 2,095                                  | 1,960       | 912         | 481         | 570          | 380           | --            | --            | --            | --            | --            | --            | --            | --            | 69    | -- | 6,467          |
| All species <sup>1</sup>       | 631,119                                | 203,056     | 57,042      | 37,922      | 23,617       | 17,815        | 11,889        | 10,356        | 4,749         | 3,073         | 2,216         | 1,057         | 1,254         | 911           | 1,067 | -- | 1,007,143      |
| All owners:                    |  |             |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 48,412                                 | 34,795      | 28,847      | 20,197      | 10,658       | 5,779         | 4,097         | 1,570         | 393           | 218           | 226           | --            | --            | --            | 91    | -- | 155,283        |
| Juniper                        | 23,537                                 | 18,159      | 16,791      | 17,160      | 12,769       | 11,327        | 7,805         | 9,269         | 4,583         | 2,981         | 2,121         | 1,099         | 1,373         | 892           | 1,048 | -- | 130,914        |
| Oak                            | 587,539                                | 157,477     | 13,641      | 2,576       | 1,017        | 1,377         | 718           | --            | --            | --            | --            | --            | --            | --            | --    | -- | 764,345        |
| Other                          | 2,187                                  | 2,018       | 940         | 497         | 584          | 389           | --            | --            | --            | --            | --            | --            | --            | --            | 72    | -- | 6,687          |
| All species <sup>1</sup>       | 661,675                                | 212,449     | 60,219      | 40,430      | 25,028       | 18,872        | 12,620        | 10,839        | 4,976         | 3,199         | 2,347         | 1,099         | 1,373         | 983           | 1,120 | -- | 1,057,229      |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 46--Net volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species  | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |        | All<br>classes |
|---------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------|----------------|
|                                 | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+  |                |
| ----- Thousand cubic feet ----- |  |             |             |              |               |               |               |               |               |               |               |               |               |        |                |
| State:                          |  |             |             |              |               |               |               |               |               |               |               |               |               |        |                |
| Pinyon                          | 447                                    | 1,450       | 2,797       | 2,464        | 2,083         | 2,057         | 971           | 60            | 400           | 112           | --            | --            | 496           | --     | 13,337         |
| Juniper                         | 199                                    | 604         | 1,460       | 1,567        | 1,995         | 1,881         | 3,208         | 1,865         | 1,066         | 1,721         | 629           | 3,960         | 1,120         | 1,313  | 22,588         |
| Oak                             | 1,821                                  | 640         | 276         | 469          | 1,260         | 810           | --            | --            | --            | --            | --            | --            | --            | --     | 5,276          |
| Other                           | 9                                      | 14          | 13          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 244    | 280            |
| All species <sup>1</sup>        | 2,476                                  | 2,708       | 4,546       | 4,500        | 5,338         | 4,748         | 4,179         | 1,925         | 1,466         | 1,833         | 629           | 3,960         | 1,616         | 1,557  | 41,481         |
| Private:                        |  |             |             |              |               |               |               |               |               |               |               |               |               |        |                |
| Pinyon                          | 8,676                                  | 28,127      | 42,338      | 40,656       | 36,085        | 42,017        | 20,325        | 7,056         | 4,710         | 4,892         | --            | --            | 4,733         | --     | 239,615        |
| Juniper                         | 3,452                                  | 8,907       | 20,229      | 26,930       | 39,478        | 33,089        | 72,840        | 36,979        | 31,867        | 27,843        | 16,129        | 38,605        | 16,510        | 28,565 | 401,423        |
| Oak                             | 41,205                                 | 11,820      | 5,133       | 5,004        | 9,884         | 6,174         | --            | --            | --            | --            | --            | --            | --            | --     | 79,220         |
| Other                           | 321                                    | 415         | 393         | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 4,946  | 6,075          |
| All species <sup>1</sup>        | 53,654                                 | 49,269      | 68,093      | 72,590       | 85,447        | 81,280        | 93,165        | 44,035        | 36,577        | 32,735        | 16,129        | 38,605        | 21,243        | 33,511 | 726,333        |
| All owners:                     |  |             |             |              |               |               |               |               |               |               |               |               |               |        |                |
| Pinyon                          | 9,123                                  | 29,577      | 45,135      | 43,120       | 38,168        | 44,074        | 21,296        | 7,116         | 5,110         | 5,004         | --            | --            | 5,229         | --     | 252,952        |
| Juniper                         | 3,651                                  | 9,511       | 21,689      | 28,497       | 41,473        | 34,970        | 76,048        | 38,844        | 32,933        | 29,564        | 16,758        | 42,565        | 17,630        | 29,878 | 424,011        |
| Oak                             | 43,026                                 | 12,460      | 5,409       | 5,473        | 11,144        | 6,984         | --            | --            | --            | --            | --            | --            | --            | --     | 84,496         |
| Other                           | 330                                    | 429         | 406         | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 5,190  | 6,355          |
| All species <sup>1</sup>        | 56,130                                 | 51,977      | 72,639      | 77,090       | 90,785        | 86,028        | 97,344        | 45,960        | 38,043        | 34,568        | 16,758        | 42,565        | 22,859        | 35,068 | 767,814        |

<sup>1</sup>Does not include timber species in woodland forest types.

Table 47--Net annual growth on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, species, and diameter class, Colorado, 1982

| Ownership class<br>and species | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |       |    | All<br>classes |
|--------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|----|----------------|
|                                | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |    |                |
|                                | ----- Thousand cubic feet -----        |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| State:                         |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 28                                     | 44          | 65          | 45           | 32            | 27            | 10            | (1)           | 3             | -114          | --            | --            | --            | 3     | -- | 143            |
| Juniper                        | 9                                      | 21          | 41          | 30           | 31            | 20            | 32            | 15            | 6             | 10            | 2             | --            | --            | 3     | 3  | 239            |
| Oak                            | 121                                    | -6          | 6           | 8            | 14            | 4             | --            | --            | --            | --            | --            | --            | --            | --    | -- | 147            |
| Other                          | -1                                     | --          | (1)         | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | 1  | --             |
| All species <sup>2</sup>       | 157                                    | 59          | 112         | 83           | 77            | 51            | 42            | 15            | 9             | -104          | 2             | 16            | 6             | 4     | 4  | 529            |
| Private:                       |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 487                                    | 709         | 910         | 616          | 517           | 528           | 205           | 67            | 38            | -1,056        | --            | --            | --            | 27    | -- | 3,048          |
| Juniper                        | 188                                    | 293         | 527         | 462          | 500           | 310           | 609           | 258           | 195           | 178           | 58            | 154           | 41            | 57    | 57 | 3,830          |
| Oak                            | 3,096                                  | 45          | 84          | 74           | 109           | 30            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 3,438          |
| Other                          | -22                                    | -2          | 9           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | 23 | 8              |
| All species <sup>2</sup>       | 3,749                                  | 1,045       | 1,530       | 1,152        | 1,126         | 868           | 814           | 325           | 233           | -878          | 58            | 154           | 68            | 80    | 80 | 10,324         |
| All owners:                    |  |             |             |              |               |               |               |               |               |               |               |               |               |       |    |                |
| Pinyon                         | 515                                    | 753         | 975         | 661          | 549           | 555           | 215           | 67            | 41            | -1,170        | --            | --            | --            | 30    | -- | 3,191          |
| Juniper                        | 197                                    | 314         | 568         | 492          | 531           | 330           | 641           | 273           | 201           | 188           | 60            | 170           | 44            | 60    | 60 | 4,069          |
| Oak                            | 3,217                                  | 39          | 90          | 82           | 123           | 34            | --            | --            | --            | --            | --            | --            | --            | --    | -- | 3,585          |
| Other                          | -23                                    | -2          | 9           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    | 24 | 8              |
| All species <sup>2</sup>       | 3,906                                  | 1,104       | 1,642       | 1,235        | 1,203         | 919           | 856           | 340           | 242           | -982          | 60            | 170           | 74            | 84    | 84 | 10,853         |

<sup>1</sup>Less than 0.5 thousand acres.

<sup>2</sup>Does not include timber species in woodland forest types.

Table 48--Net dead volume on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, species, and diameter class, Colorado, 1983

| Ownership class<br>and species  | Diameter class (inches at root collar) |             |             |              |               |               |               |               |               |               |               |               |               |       |  | All<br>classes |
|---------------------------------|--|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|--|----------------|
|                                 | 3.0-<br>4.9                            | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>22.9 | 23.0-<br>24.9 | 25.0-<br>26.9 | 27.0-<br>28.9 | 29.0+ |  |                |
| ----- Thousand cubic feet ----- |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |                |
| State:                          |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |                |
| Pinyon                          | 5                                      | 95          | 177         | 295          | 229           | 236           | 119           | 5             | --            | 576           | --            | --            | 295           | --    |  | 2,032          |
| Juniper                         | 9                                      | 24          | 116         | 140          | 139           | 158           | 200           | 125           | 26            | 128           | 62            | 8             | 78            | 133   |  | 1,346          |
| Oak                             | 210                                    | 187         | 85          | 25           | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    |  | 507            |
| Other                           | 9                                      | 6           | 2           | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 24    |  | 41             |
| All species <sup>1</sup>        | 233                                    | 312         | 380         | 460          | 368           | 394           | 319           | 130           | 26            | 704           | 62            | 8             | 373           | 157   |  | 3,926          |
| Private:                        |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |                |
| Pinyon                          | 402                                    | 1,975       | 2,252       | 5,122        | 3,462         | 3,032         | 1,105         | 104           | --            | 5,515         | --            | --            | 2,298         | --    |  | 25,267         |
| Juniper                         | 231                                    | 575         | 2,580       | 3,023        | 7,307         | 3,611         | 6,220         | 6,096         | 3,815         | 5,777         | 4,063         | 170           | 1,438         | 4,120 |  | 49,026         |
| Oak                             | 4,245                                  | 3,365       | 805         | 282          | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    |  | 8,697          |
| Other                           | 262                                    | 200         | 56          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 495   |  | 1,013          |
| All species <sup>1</sup>        | 5,140                                  | 6,115       | 5,693       | 8,427        | 10,769        | 6,643         | 7,325         | 6,200         | 3,815         | 11,292        | 4,063         | 170           | 3,736         | 4,615 |  | 84,003         |
| All owners:                     |  |             |             |              |               |               |               |               |               |               |               |               |               |       |  |                |
| Pinyon                          | 407                                    | 2,070       | 2,429       | 5,417        | 3,691         | 3,268         | 1,224         | 109           | --            | 6,091         | --            | --            | 2,593         | --    |  | 27,299         |
| Juniper                         | 240                                    | 599         | 2,696       | 3,163        | 7,446         | 3,769         | 6,420         | 6,221         | 3,841         | 5,905         | 4,125         | 178           | 1,516         | 4,253 |  | 50,372         |
| Oak                             | 4,455                                  | 3,552       | 890         | 307          | --            | --            | --            | --            | --            | --            | --            | --            | --            | --    |  | 9,204          |
| Other                           | 271                                    | 206         | 58          | --           | --            | --            | --            | --            | --            | --            | --            | --            | --            | 519   |  | 1,054          |
| All species <sup>1</sup>        | 5,373                                  | 6,427       | 6,073       | 8,887        | 11,137        | 7,037         | 7,644         | 6,330         | 3,841         | 11,996        | 4,125         | 178           | 4,109         | 4,772 |  | 87,929         |

<sup>1</sup>Does not include timber species in woodland forest types.



Table 49--Number of pinyon Christmas trees on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, height class, and grade class, Colorado, 1983

| Ownership class            | Height class (feet) | Grade class |          |         | All grades |
|----------------------------|---------------------|-------------|----------|---------|------------|
|                            |                     | Premium     | Standard | Utility |            |
| ----- Thousand trees ----- |                     |             |          |         |            |
| State:                     |                     |             |          |         |            |
|                            | 0 - 5               | --          | 220      | 889     | 1,109      |
|                            | 6 - 10              | 18          | 500      | 554     | 1,072      |
|                            | 11 - 12             | 6           | 37       | 155     | 198        |
|                            | All classes         | 24          | 757      | 1,598   | 2,379      |
| Private:                   |                     |             |          |         |            |
|                            | 0 - 5               | 89          | 3,421    | 13,875  | 17,385     |
|                            | 6 - 10              | 643         | 7,962    | 10,883  | 19,488     |
|                            | 11 - 12             | 351         | 580      | 2,706   | 3,637      |
|                            | All classes         | 1,083       | 11,963   | 27,464  | 40,510     |
| All owners:                |                     |             |          |         |            |
|                            | 0 - 5               | 89          | 3,641    | 14,764  | 18,494     |
|                            | 6 - 10              | 661         | 8,462    | 11,437  | 20,560     |
|                            | 11 - 12             | 357         | 617      | 2,861   | 3,835      |
|                            | All classes         | 1,107       | 12,720   | 29,062  | 42,889     |

Table 50--Number of fenceposts on State and privately owned woodland on less than 30 percent slope and within 1 mile of a road by ownership class, type of post, and species, Colorado, 1983

| Ownership class                                | Type of post | Species |         |       | All species |
|--|--------------|---------|---------|-------|-------------|
|  |              | Pinyon  | Juniper | Oak   |             |
| - - - - - <u>Thousand fenceposts</u> - - - - - |              |         |         |       |             |
| State:   | Line         | 1,514   | 3,820   | 117   | 5,451       |
|  | Corner       | 786     | 1,918   | 14    | 2,718       |
|  | All posts    | 2,300   | 5,738   | 131   | 8,169       |
| Private:                                       | Line         | 16,126  | 50,817  | 3,625 | 70,568      |
|  | Corner       | 8,501   | 30,302  | 272   | 39,075      |
|  | All posts    | 24,627  | 81,119  | 3,897 | 109,643     |
| All owners:                                    | Line         | 17,640  | 54,637  | 3,742 | 76,019      |
|  | Corner       | 9,287   | 32,220  | 286   | 41,793      |
|  | All posts    | 26,927  | 86,857  | 4,028 | 117,812     |

Table 51--Area of State and privately owned woodland by county and ownership class, Colorado, 1983

| County                     | Ownership class  |         |         |
|----------------------------|------------------|---------|---------|
|                            | State            | Private | Total   |
| ----- Thousand acres ----- |                  |         |         |
| Alamosa                    | 0.2              | 3.3     | 3.5     |
| Archuleta                  | 0.5              | 126.2   | 126.7   |
| Boulder                    | ( <sup>1</sup> ) | 1.5     | 1.5     |
| Chaffee                    | 1.1              | 18.9    | 20.0    |
| Clear Creek                | ( <sup>1</sup> ) | 0.8     | 0.8     |
| Conejos                    | 3.0              | 3.0     | 6.0     |
| Costilla                   | --               | 82.2    | 82.2    |
| Custer                     | 0.5              | 16.1    | 16.6    |
| Delta                      | 1.1              | 54.7    | 55.8    |
| Dolores                    | 2.4              | 49.0    | 51.4    |
| Douglas                    | 0.4              | 25.5    | 25.9    |
| Eagle                      | 4.7              | 28.4    | 33.1    |
| Elbert                     | 0.1              | 2.2     | 2.3     |
| El Paso                    | 0.4              | 11.2    | 11.6    |
| Fremont                    | 14.4             | 112.3   | 126.7   |
| Garfield                   | 1.8              | 140.6   | 142.4   |
| Gilpin                     | ( <sup>1</sup> ) | 1.9     | 1.9     |
| Grand                      | 2.4              | 5.1     | 7.5     |
| Gunnison                   | 0.6              | 34.5    | 35.1    |
| Hinsdale                   | 0.1              | 1.5     | 1.6     |
| Huerfano                   | 8.0              | 131.2   | 139.2   |
| Jackson                    | 1.5              | 4.7     | 6.2     |
| Jefferson                  | ( <sup>1</sup> ) | 4.1     | 4.1     |
| Lake                       | ( <sup>1</sup> ) | 1.0     | 1.0     |
| La Plata                   | 4.7              | 204.2   | 208.9   |
| Larimer                    | 0.9              | 5.3     | 6.2     |
| Las Animas                 | 48.3             | 564.8   | 613.1   |
| Mesa                       | 0.4              | 130.1   | 130.5   |
| Mineral                    | 0.1              | 0.8     | 0.9     |
| Moffat                     | 20.5             | 101.0   | 121.5   |
| Montezuma                  | 2.5              | 269.5   | 272.0   |
| Montrose                   | 2.8              | 102.9   | 105.7   |
| Ouray                      | 2.2              | 56.5    | 58.7    |
| Park                       | 0.2              | 3.8     | 4.0     |
| Pitkin                     | 0.4              | 18.4    | 18.8    |
| Pueblo                     | 8.4              | 66.1    | 74.5    |
| Rio Blanco                 | 8.0              | 74.6    | 82.6    |
| Rio Grande                 | 0.8              | 7.6     | 8.4     |
| Routt                      | 9.6              | 57.3    | 66.9    |
| Saguache                   | 1.9              | 23.8    | 25.7    |
| San Juan                   | ( <sup>1</sup> ) | 0.9     | 0.9     |
| San Miguel                 | 5.8              | 72.5    | 78.3    |
| Summit                     | ( <sup>1</sup> ) | 2.0     | 2.0     |
| Teller                     | 0.5              | 3.4     | 3.9     |
| All counties               | 161.2            | 2,625.4 | 2,786.6 |

<sup>1</sup>Less than 0.05 thousand acres.

Table 52--Net volume of State and privately owned woodland by county and ownership class, Colorado, 1983

| County | Ownership class |         | Total |
|--------|-----------------|---------|-------|
|        | State           | Private |       |
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<sup>1</sup>Less than 0.5 thousand cubic feet.

Table 53--Net annual growth of State and privately owned woodland by county and ownership class, Colorado, 1982

| County                                 | Ownership class |         | Total  |
|--|-----------------|---------|--------|
|  | State           | Private |        |
| ----- <u>Thousand cubic feet</u> ----- |                 |         |        |
| Alamosa                                | 1               | 11      | 12     |
| Archuleta                              | 4               | 862     | 866    |
| Boulder                                | (1)             | 6       | 6      |
| Chaffee                                | 9               | 99      | 108    |
| Clear Creek                            | (1)             | 4       | 4      |
| Conejos                                | 18              | 14      | 32     |
| Costilla                               | --              | 273     | 273    |
| Custer                                 | 1               | 79      | 80     |
| Delta                                  | 4               | 358     | 362    |
| Dolores                                | 15              | 308     | 323    |
| Douglas                                | 2               | 162     | 164    |
| Eagle                                  | 32              | 205     | 237    |
| Elbert                                 | (1)             | 10      | 10     |
| El Paso                                | 2               | 69      | 71     |
| Fremont                                | 67              | 455     | 522    |
| Garfield                               | 14              | 965     | 979    |
| Gilpin                                 | (1)             | 12      | 12     |
| Grand                                  | 15              | 37      | 52     |
| Gunnison                               | 4               | 309     | 313    |
| Hinsdale                               | 1               | 11      | 12     |
| Huerfano                               | 52              | 818     | 870    |
| Jackson                                | 12              | 35      | 47     |
| Jefferson                              | (1)             | 25      | 25     |
| Lake                                   | (1)             | 6       | 6      |
| La Plata                               | 21              | 1,162   | 1,183  |
| Larimer                                | 7               | 34      | 41     |
| Las Animas                             | 183             | 2,125   | 2,308  |
| Mesa                                   | 4               | 926     | 930    |
| Mineral                                | (1)             | 8       | 8      |
| Moffat                                 | 58              | 484     | 542    |
| Montezuma                              | 14              | 1,455   | 1,469  |
| Montrose                               | 14              | 714     | 728    |
| Ouray                                  | 21              | 426     | 447    |
| Park                                   | 2               | 22      | 24     |
| Pitkin                                 | 4               | 175     | 179    |
| Pueblo                                 | 42              | 343     | 385    |
| Rio Blanco                             | 42              | 470     | 512    |
| Rio Grande                             | 4               | 35      | 39     |
| Routt                                  | 90              | 527     | 617    |
| Saguache                               | 8               | 119     | 127    |
| San Juan                               | (1)             | 9       | 9      |
| San Miguel                             | 28              | 494     | 522    |
| Summit                                 | (1)             | 17      | 17     |
| Teller                                 | 3               | 12      | 15     |
| All counties                           | 798             | 14,690  | 15,488 |

<sup>1</sup>Less than 0.5 thousand cubic feet.

Table 54--Annual mortality of State and privately owned woodland by county and ownership class, Colorado, 1982

| County       | Ownership class                        |         | Total |
|--------------|--|---------|-------|
|              | State                                  | Private |       |
| <hr/>        |  |         |       |
|              | <hr/> <u>Thousand cubic feet</u> <hr/> |         |       |
| Alamosa      | --                                     | (1)     | (1)   |
| Archuleta    | (1)                                    | 207     | 207   |
| Boulder      | --                                     | --      | --    |
| Chaffee      | (1)                                    | 6       | 6     |
| Clear Creek  | --                                     | --      | --    |
| Conejos      | (1)                                    | (1)     | (1)   |
| Costilla     | --                                     | 41      | 41    |
| Custer       | (1)                                    | 3       | 3     |
| Delta        | 2                                      | 55      | 57    |
| Dolores      | 3                                      | 68      | 71    |
| Douglas      | --                                     | --      | --    |
| Eagle        | (1)                                    | 3       | 3     |
| Elbert       | --                                     | --      | --    |
| El Paso      | --                                     | --      | --    |
| Fremont      | 34                                     | 332     | 366   |
| Garfield     | 1                                      | 152     | 153   |
| Gilpin       | --                                     | --      | --    |
| Grand        | (1)                                    | (1)     | (1)   |
| Gunnison     | (1)                                    | 5       | 5     |
| Hinsdale     | --                                     | (1)     | (1)   |
| Huerfano     | 1                                      | 8       | 9     |
| Jackson      | --                                     | (1)     | (1)   |
| Jefferson    | --                                     | --      | --    |
| Lake         | --                                     | --      | --    |
| La Plata     | 10                                     | 228     | 238   |
| Larimer      | --                                     | --      | --    |
| Las Animas   | 1                                      | 15      | 16    |
| Mesa         | --                                     | 139     | 139   |
| Mineral      | --                                     | 1       | 1     |
| Moffat       | 66                                     | 218     | 284   |
| Montezuma    | 5                                      | 246     | 251   |
| Montrose     | 6                                      | 126     | 132   |
| Ouray        | (1)                                    | 42      | 42    |
| Park         | --                                     | --      | --    |
| Pitkin       | (1)                                    | 2       | 2     |
| Pueblo       | 1                                      | 5       | 6     |
| Rio Blanco   | 16                                     | 119     | 135   |
| Rio Grande   | --                                     | (1)     | (1)   |
| Routt        | 1                                      | 4       | 5     |
| Saguache     | --                                     | 1       | 1     |
| San Juan     | --                                     | (1)     | (1)   |
| San Miguel   | 12                                     | 95      | 107   |
| Summit       | --                                     | (1)     | (1)   |
| Teller       | --                                     | --      | --    |
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| All counties | 159                                    | 2,121   | 2,280 |

<sup>1</sup>Less than 0.5 thousand cubic feet.







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Conner, Roger C.; Green, Alan W. 1988. Colorado's woodland resources on State and private land. Resour. Bull. INT-50. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 50 p.

Presents highlights of Colorado's State and privately owned woodlands. Summarizes the basic statistics and presents tables of area, volume, growth, and mortality estimates. Also includes estimates of fuelwood harvest and number of fenceposts and Christmas trees available.

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**KEYWORDS:** woodland area, net volume, growth, mortality, pinyon-juniper

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## INTERMOUNTAIN RESEARCH STATION

The Intermountain Research Station provides scientific knowledge and technology to improve management, protection, and use of the forests and rangelands of the Intermountain West. Research is designed to meet the needs of National Forest managers, Federal and State agencies, industry, academic institutions, public and private organizations, and individuals. Results of research are made available through publications, symposia, workshops, training sessions, and personal contacts.

The Intermountain Research Station territory includes Montana, Idaho, Utah, Nevada, and western Wyoming. Eighty-five percent of the lands in the Station area, about 231 million acres, are classified as forest or rangeland. They include grasslands, deserts, shrublands, alpine areas, and forests. They provide fiber for forest industries, minerals and fossil fuels for energy and industrial development, water for domestic and industrial consumption, forage for livestock and wildlife, and recreation opportunities for millions of visitors.

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